



**S&P Dow Jones Indices**  
ESG Analysis

# Carbon Footprint

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## CSF Aggregate Equities

**Carbon footprint analysis quantifies greenhouse gas emissions (GHG) embedded within the portfolio presenting these as tonnes of carbon dioxide equivalents (tCO<sub>2</sub>e). Comparing the total GHG emissions of each holding relative to annual revenue, gives a measure of carbon intensity that enables comparison between companies, irrespective of size or geography.**

The carbon footprint is an analysis of the GHG embedded within the portfolio. This is achieved by carrying out a carbon footprint for each individual holding encapsulating both direct and first tier indirect impacts.

Direct emissions result from a company's own operations and include GHG emissions from boilers and company

owned vehicles, emissions from any manufacturing operations and waste produced.

First tier indirect impacts, also termed supply chain impacts, occur because of the goods or services a company procures. This includes purchased electricity, business travel and logistics.

<b>PORTFOLIO:</b>	<b>CSF Aggregate Equities</b>
<b>BENCHMARK:</b>	<b>Custom Aggregate Benchmark</b>
<b>DATE OF HOLDINGS:</b>	<b>March 31, 2017</b>
<b>DATE OF ANALYSIS:</b>	<b>August 25, 2017</b>

Each holding's contribution to the carbon footprint of the portfolio is calculated on an equity ownership basis. The carbon footprint of the fund is the sum of these contributions, normalized by revenue owned.



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## CARBON FOOTPRINT

Carbon Footprint analysis measures the carbon risks and opportunities not captured by standard portfolio analysis and presents a systematic assessment of carbon impacts relative to your benchmark

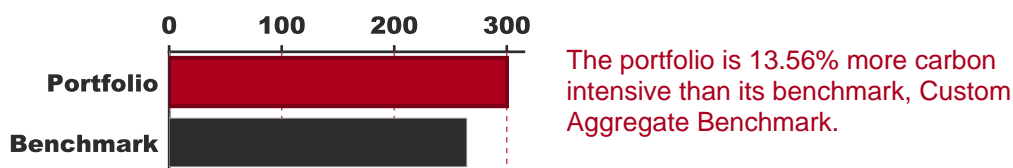
## CSF Aggregate Equities

### 1 Summary Information

Carbon footprint analysis was carried out on 25 August 2017 for holdings data as at 31 March 2017. The benchmark used for this analysis was the Custom Aggregate Benchmark.

	Number of Companies	Value of Holdings (A\$ mn)	Total Carbon Emissions (tCO <sub>2</sub> e)	Total Footprint (tCO <sub>2</sub> e/A\$mn)
Portfolio	2,540	3,481.69	747,175	300.18
Benchmark	2,628	3,481.69	517,049	264.34

The carbon footprint of the portfolio is 300.18 compared to the benchmark which is 264.34.



### KEY FINDINGS

The portfolio is 13.56% more carbon intensive than Custom Aggregate Benchmark benchmark.

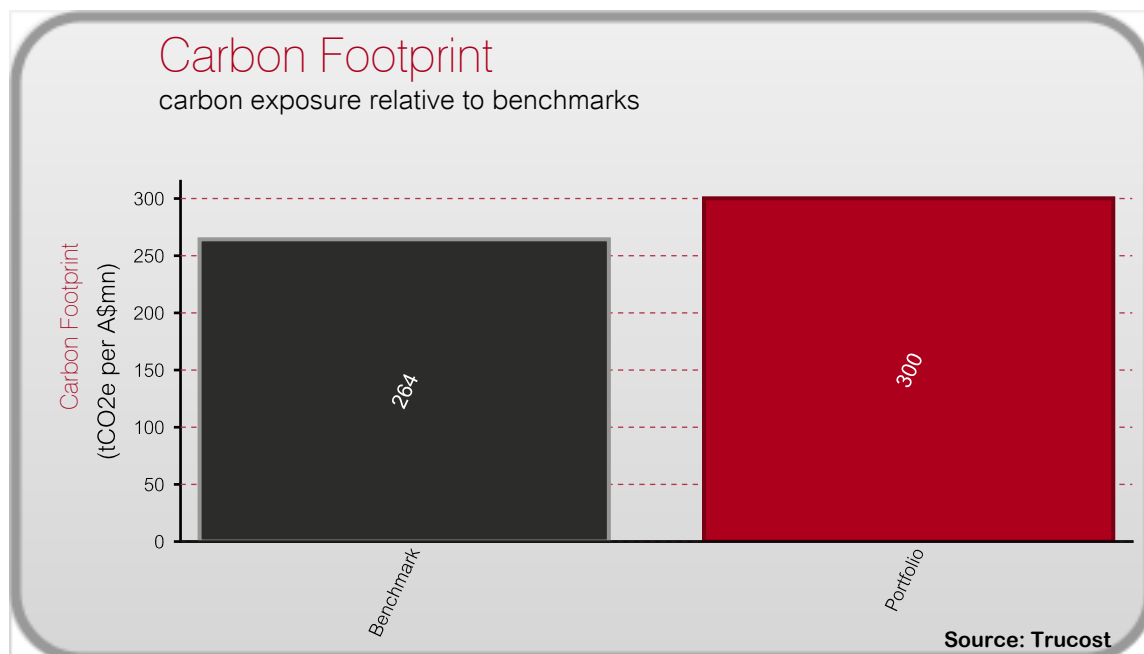
This efficiency is due to a combination of 10.02% negative sector allocation effects and 3.54% negative stock selection effects.

In aggregate the carbon exposure of the fund is equivalent to 1.22% of the aggregate turnover of the fund.

To give context to the carbon performance, the portfolio has been compared to some key indices.

Carbon has been assessed based on an average annual price of A\$48

The price of carbon used in the Trucost model is based on academic research into the external damage costs of carbon emissions.





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## 2 Detailed Findings

The two principal reasons why the carbon exposure of the portfolio may differ from the benchmark are due to sector allocation decisions and stock allocation decisions.

Sector allocation decisions will cause the carbon intensity of the portfolio to diverge markedly from the benchmark where the sector/s are either carbon intensive or low carbon. If the portfolio is overweight in carbon intensive sectors the portfolio is likely to be more carbon intensive than the benchmark.

However, if the stocks within a carbon intensive sector are the most carbon efficient companies, it is possible that the portfolio may still have a lower carbon footprint than the benchmark.

Trucost has developed a carbon optimisation product that can help minimise the carbon footprint associated with a portfolio. For more information, please go to <http://www.trucost.com/investments>

## Summary of Stock and Sector Allocation Effects

### Portfolio

	Sector Weighting		Carbon Intensity (tCO <sub>2</sub> e/\$mn revenue)		Carbon Footprint Attribution		
	Portfolio	Benchmark	Portfolio	Benchmark	Sector Allocation	Stock Selection	Total Effect
Consumer Discretionary	9.93 %	8.60 %	54.65	59.44	-0.46 %	0.20 %	-0.26 %
Consumer Staples	10.07 %	8.33 %	144.43	113.31	1.44 %	-2.08 %	-0.64 %
Energy	7.02 %	5.39 %	700.51	551.59	-1.34 %	-5.59 %	-6.93 %
Financials	21.36 %	28.57 %	17.20	14.07	-7.74 %	-0.15 %	-7.88 %
Health Care	10.15 %	8.89 %	39.45	36.45	0.11 %	-0.08 %	0.03 %
Industrials	11.28 %	8.65 %	180.38	187.53	1.53 %	0.44 %	1.97 %
Information Technology	9.16 %	8.58 %	56.41	53.30	-1.49 %	-0.04 %	-1.53 %
Materials	13.72 %	10.44 %	707.87	784.03	-8.58 %	4.38 %	-4.20 %
Real Estate	2.23 %	5.74 %	53.25	81.49	-0.30 %	0.22 %	-0.08 %
Telecommunication Services	3.08 %	3.86 %	38.21	47.25	-1.11 %	0.08 %	-1.03 %
Utilities	1.99 %	2.95 %	2,303.73	2,199.67	7.92 %	-0.91 %	7.01 %
<b>Total</b>	<b>100.00 %</b>	<b>100.00 %</b>	<b>300.18</b>	<b>264.34</b>	<b>-10.02 %</b>	<b>-3.54 %</b>	<b>-13.56 %</b>

The portfolio is 13.56% more carbon intensive than the benchmark.

- The sector allocation of the portfolio is responsible for 10.02% of the lower carbon efficiency.
- The stock selection is responsible for 3.54% of the lower carbon efficiency.
- In aggregate, the two sectors that have the greatest positive effect on carbon efficiency are Utilities and Industrials, which together contribute 8.98% of the increased carbon efficiency. The two worst performing sectors in the portfolio are Financials and Energy, which contribute to 14.81% of reduced carbon efficiency.

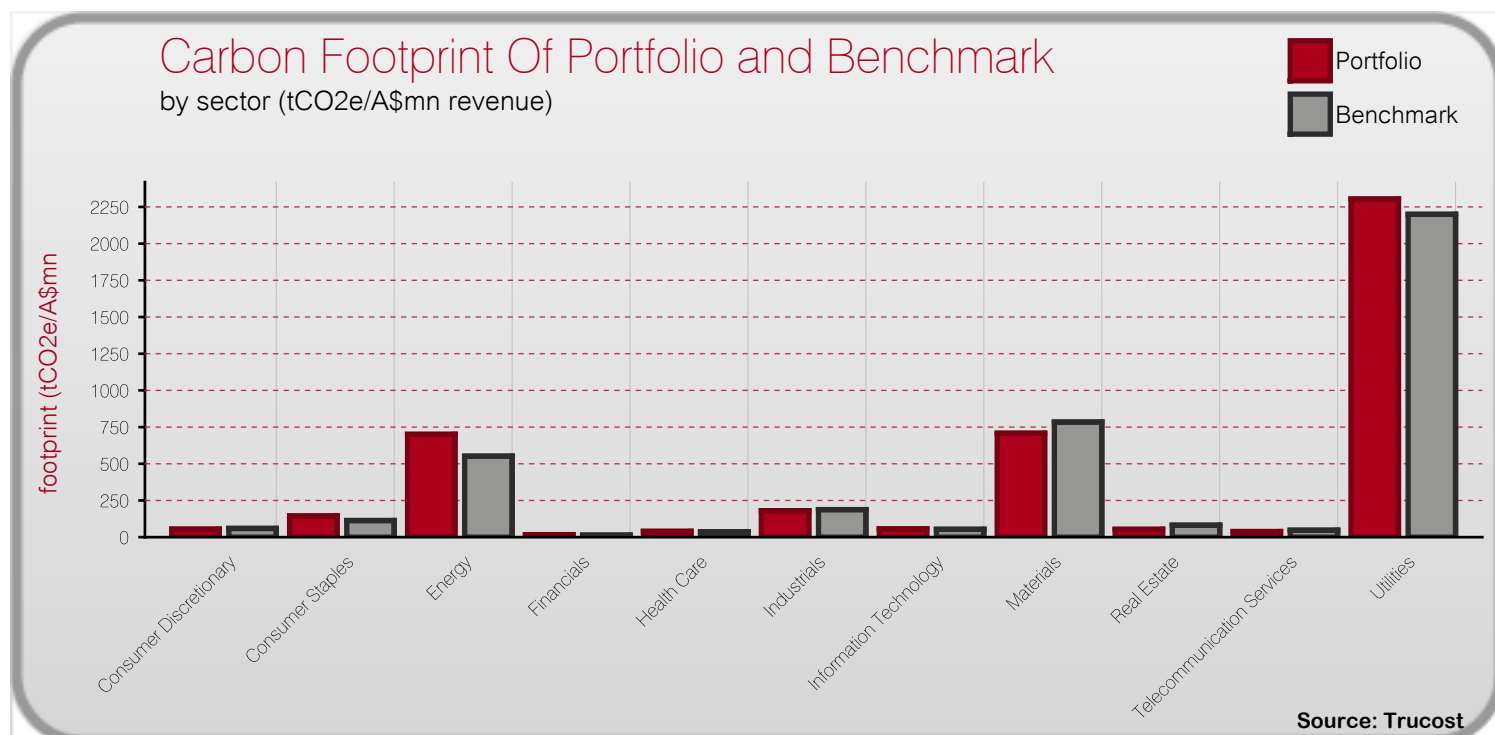
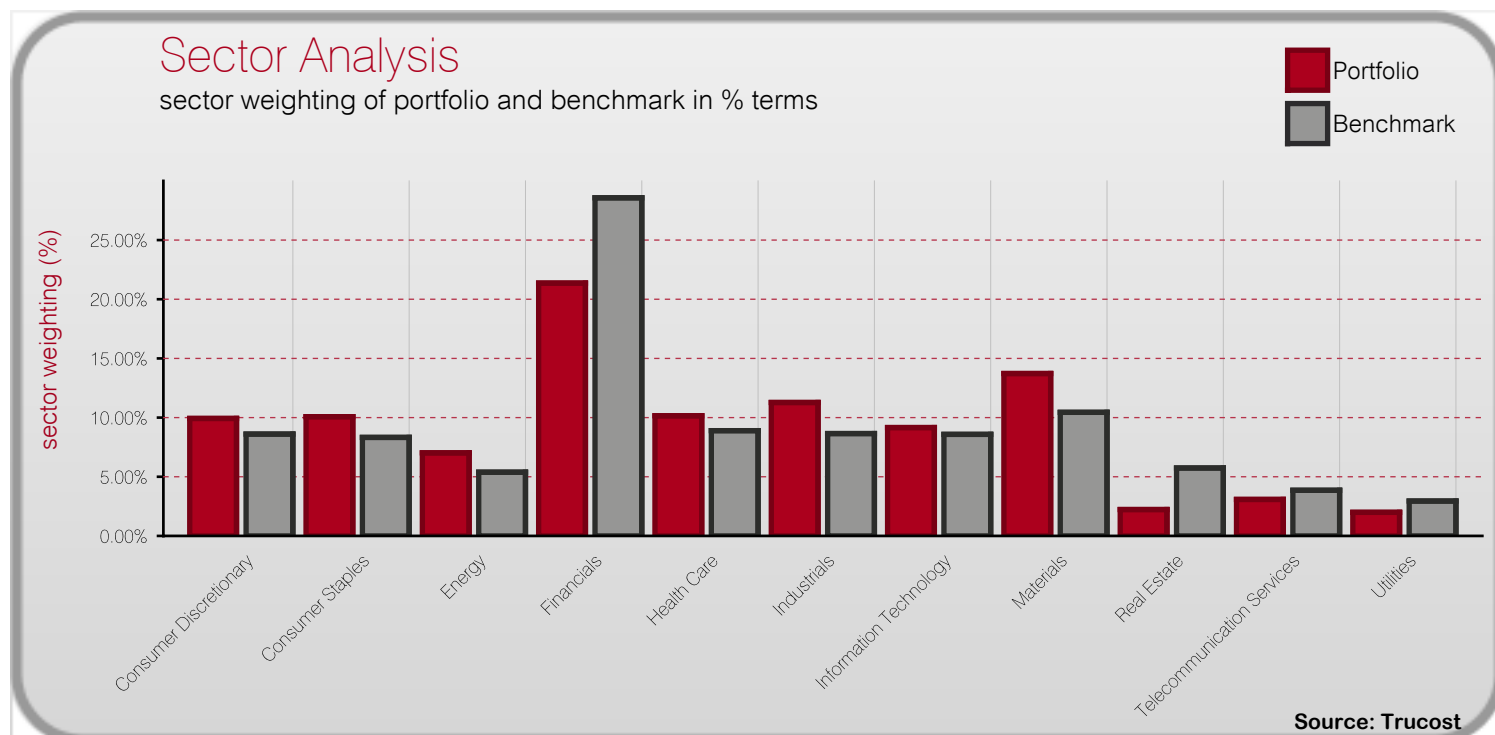


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## 3 Sector Analysis

The graphs below show how the sector allocation in the portfolio differs from that in the benchmark and the effect on the Carbon Footprint of the fund. The four sectors that contribute the highest levels of carbon intensity to the portfolio are Utilities (2,304 tCO<sub>2</sub>e/A\$m<sup>n</sup>), Materials (708 tCO<sub>2</sub>e/A\$m<sup>n</sup>), Energy (701 tCO<sub>2</sub>e/A\$m<sup>n</sup>), and Industrials (180 tCO<sub>2</sub>e/A\$m<sup>n</sup>). Sectors have been defined using the Global Industry Classification Standard (GICS) system.





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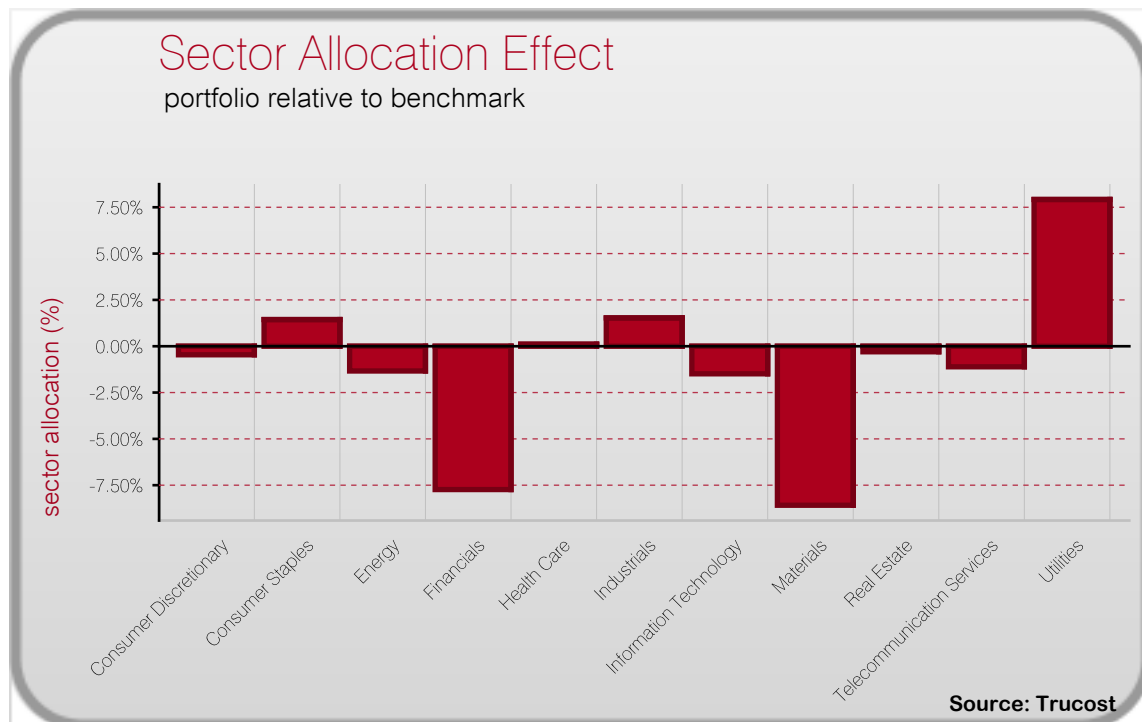
# Carbon Footprint

## 4 Sector Allocation & Stock Selection Effect

This graph analyzes the sector allocation effect on the carbon footprint of the portfolio.

If the bar is negative, you are more heavily invested in a carbon intensive sector than the benchmark, or you are underweight in a carbon "light" sector.

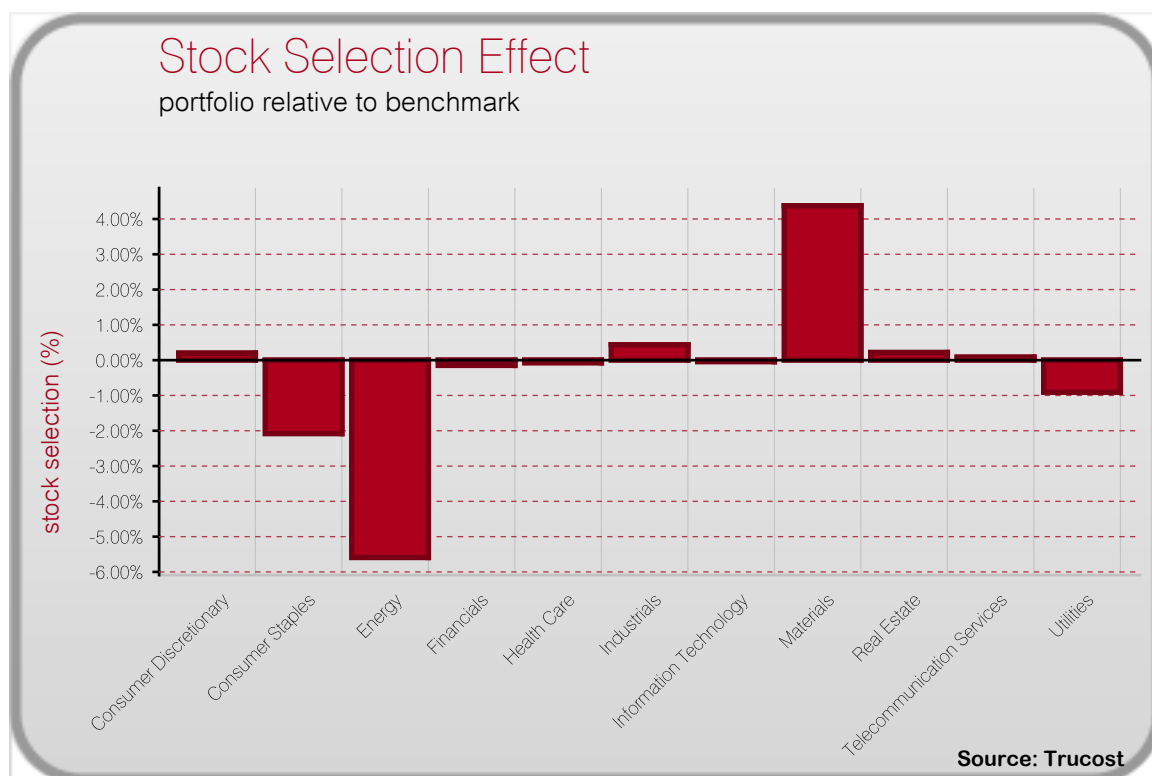
The reverse is true if the bar is positive.



This graph shows the effect of stock selection within sectors on the carbon footprint of the portfolio relative to the benchmark.

If the bar is positive, you are invested in companies that are less carbon intensive relative to peers within their benchmark sector.

If the bar is negative, you are invested in more carbon intensive companies within sectors.



Carbon efficiency can be used as a proxy for efficient management of a company. Therefore you may want to see how companies in your fund rank within their sectors from a carbon efficiency perspective. This "rank in sector" information is available in the Data Sheets at the back of this report.



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## 5 Largest Carbon Contributors to the Portfolio's Carbon Footprint

The ten companies that contribute the most to the portfolio's carbon footprint are shown below. Note that a company may appear due to the proportion owned, rather than because it is the most carbon intensive stock held. The rank in benchmark sector column is very useful in assessing the carbon intensity of your top ten contributors relative to their peers.

### Largest Contributors to Portfolio's Carbon Footprint

Company Name	Holding (A\$ mn)	Carbon Apportioned Tonnes	Carbon Apportioned (%)	Carbon Intensity (tCO <sub>2</sub> e/A\$m)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector**	Data Source***
Origin Energy Ltd	63.757	105,613	14.13%	1,759	-12.01 %	134 / 142	ENV*
AGL Energy Ltd	14.290	37,314	4.99%	4,207	-4.65 %	113 / 134	ENV*
Korea Elec Power Corp	3.771	34,829	4.66%	4,537	-4.37 %	114 / 134	AR*
Bluescope Steel Ltd	26.354	41,672	5.58%	1,200	-4.24 %	194 / 239	ENV*
Alumina Ltd	36.540	36,131	4.84%	1,723	-4.03 %	204 / 239	CDP
Boral Ltd	31.361	24,085	3.22%	1,129	-2.39 %	187 / 239	CDP
Woodside Petroleum Ltd	56.562	21,527	2.88%	1,488	-2.31 %	131 / 142	CDP
Qantas Airways Ltd	15.580	25,160	3.37%	720	-1.99 %	355 / 385	PRE
South32 Ltd (South Africa)	9.870	16,406	2.20%	3,129	-1.99 %	222 / 239	ENV*
Arrium Ltd.	0.168	17,913	2.40%	1,077	-1.74 %	N / A	ENV*
<b>Total</b>	<b>258.254</b>	<b>360,651</b>	<b>48.27%</b>		<b>-39.72 %</b>		

\* The Carbon Footprint Contribution is the percentage decrease in performance between what the Carbon Footprint of the portfolio would be without the holding and what the Carbon Footprint is currently. This is a measurement of how much a specific holding reduces the carbon performance of the portfolio.

\*\* Footprint Rank in Benchmark Sector - A ranking of one indicates that the stock has the lowest carbon footprint among the stocks in the benchmark sector. An entry of N/A indicates that the stock is not a member of the benchmark.

\*\*\* See table below for definitions of the Data Source.

## Carbon Footprint

### Data Source Definitions

Code	Explanation
AR	Exact Value from Annual Report/10K/Financial Accounts Disclosure
AR*	Value derived from data provided in Annual Report/Financial Accounts Disclosure
CDP	Exact Value from CDP
CDP*	Value derived from data provided in CDP
ENV	Exact Value from Environmental/CSR
ENV*	Value derived from data provided in Environmental/CSR
OTH	Exact Value from personal communication
OTH*	Value derived from personal communication
PDD	Estimate scaled according to company-specific data
PRE	Derived from previous year
TC	Data Calculated by Trucost
TC*	Estimate derived from production data



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## 6 Environmental Skylines for Largest Two Contributors

The largest contributors to the carbon footprint of the portfolio are Origin Energy Ltd and AGL Energy Ltd.

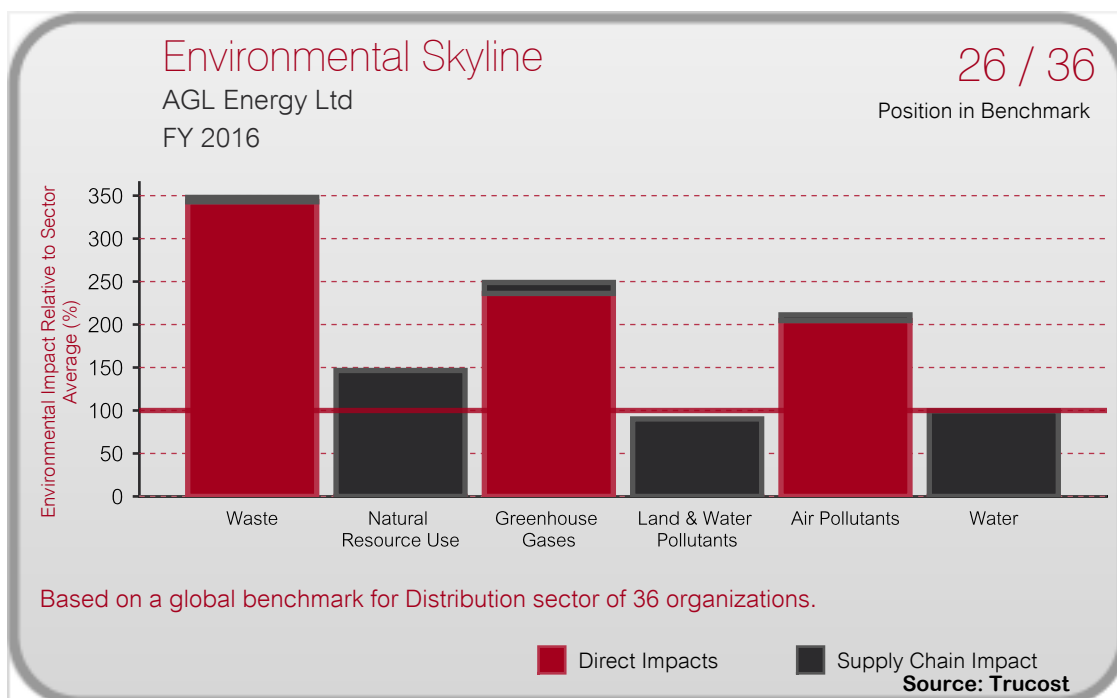
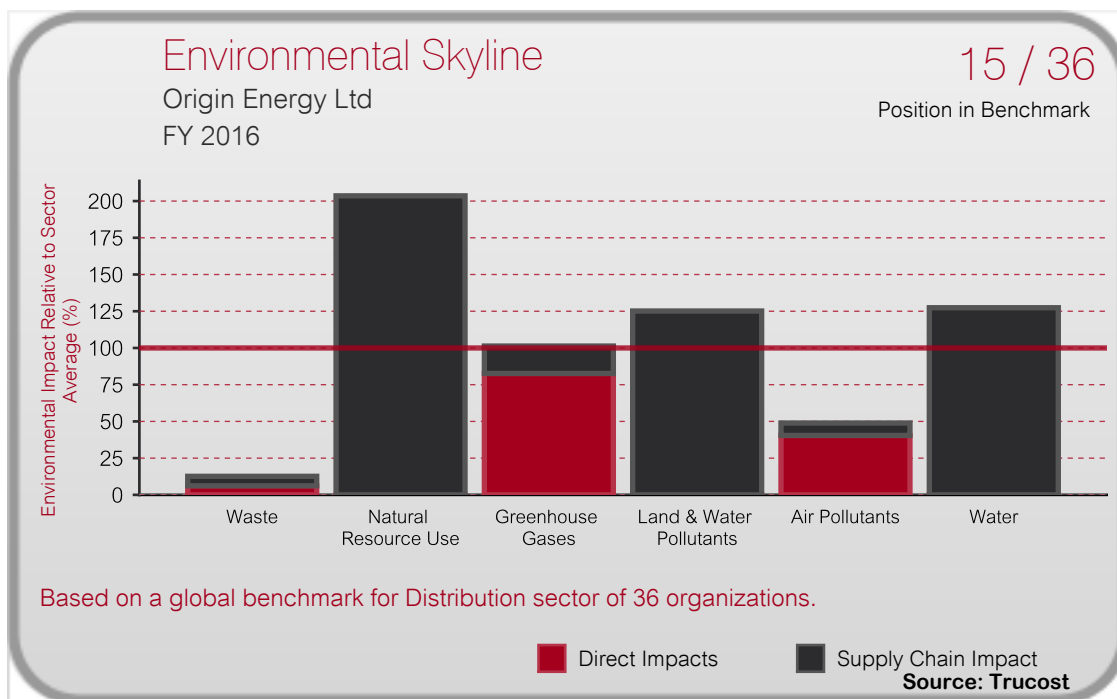
The two charts below look at each company's environmental skyline across six broad environmental groups (Greenhouse Gases, Water, Waste, Land & Water Pollutants, Air Pollutants, Natural Resource Use) relative to its benchmark sector.

Direct environmental impacts are displayed (red bar) as well as those contained within the first-tier of the supply chain (grey bar).

The overall performance across the six environmental groups has been assessed relative to the sector benchmark for both companies. Business activities are analyzed according to the North American Industry Classification (NAICS) 3-digit code.

The red line denotes the average direct and supply chain impact for all the organizations that share this organization's primary business activity.

A bar above the red line indicates that this organization is more environmentally intensive per unit of revenue generated than the benchmark sector for that particular environmental impact.





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## 7 Company Reporting Assessment

In order to rank stocks for engagement purposes we have identified five companies which do not disclose up-to-date data. These companies are ranked according to the size of their impact on your footprint as estimated by Trucost, using our unique environmental profiling model.

Not all companies report in a way considered best practice. The five companies in your portfolio we would draw your attention to, where engagement may be beneficial, are listed in the table below.

## Company Reporting Assessment

### Portfolio

Company Name	Holding (A\$ mn)	Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$m <sup>n</sup> )	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector**	Data Source***
		Tonnes	(%)				
Qantas Airways Ltd	15.580	25,160	3.37%	720	-1.99 %	355 / 385	PRE
AK Steel Hldg Corp	1.195	8,005	1.07%	2,160	-0.92 %	N / A	TC
AusNet Services Ltd	15.905	5,650	0.76%	1,031	-0.54 %	61 / 134	PRE
Newcrest Mining Ltd	37.605	5,875	0.79%	603	-0.40 %	153 / 239	PRE
Indocement Tunggal Prakarsa Tbk PT	1.565	2,834	0.38%	5,986	-0.36 %	234 / 239	TC
<b>Total</b>	<b>71.850</b>	<b>47,525</b>	<b>6.36%</b>		<b>-4.21 %</b>		

\* The Carbon Footprint Contribution is the percentage decrease in performance between what the Carbon Footprint of the portfolio would be without the holding and what the Carbon Footprint is currently. This is a measurement of how much a specific holding reduces the carbon performance of the portfolio.

\*\* Footprint rank in benchmark sector - A ranking of one indicates that the stock has the lowest carbon footprint among the stocks in the benchmark sector. An entry of N/A indicates that the stock is not a member of the benchmark.

\*\*\* Definitions of the Data Sources may be found in section 5 of this report.





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## 8 Detailed Data for Companies in your Portfolio

The following table shows how each company contributes to the overall portfolio footprint. It allows you to see which stocks are the greatest contributors to your portfolio's CO<sub>2</sub>e emissions in absolute terms as well as helping you to understand how your owned stocks compare on a sector by sector basis with other stocks in the benchmark. This will help in managing your overall footprint without compromising your sector allocations. Further detail and regular updates are available from Trucost.

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Consumer Discretionary	9.93 %	8.60 %	14,986	2.01 %	55	10.13 %		
	0.00 %		0	0.00 %	11	0.00 %	N / A	TC
3P Learning Ltd	0.03 %		13	0.00 %	31	0.02 %	N / A	TC
Aaron's Inc.	0.00 %		2	0.00 %	12	0.01 %	N / A	TC
ABC-Mart Inc	0.00 %	0.00 %	1	0.00 %	35	0.00 %	117 / 390	TC
Accor	0.00 %	0.01 %	10	0.00 %	216	0.00 %	374 / 390	AR*
Adairs Ltd	0.03 %		78	0.01 %	64	0.04 %	N / A	TC
Adidas AG	0.00 %	0.04 %	2	0.00 %	37	0.00 %	127 / 390	PRE
Advance Auto Parts Inc	0.00 %	0.01 %	5	0.00 %	61	0.00 %	248 / 390	TC
Ainsworth Game Technology Ltd	0.01 %	0.01 %	18	0.00 %	83	0.01 %	284 / 390	TC
Aisin Seiki Co	0.00 %	0.01 %	32	0.00 %	161	0.00 %	357 / 390	ENV*
Altice SA	0.00 %	0.01 %	1	0.00 %	19	0.00 %	52 / 390	TC
Amazon.com Inc	0.36 %	0.44 %	205	0.03 %	49	0.14 %	183 / 390	TC
APG SGA SA	0.00 %		0	0.00 %	21	0.00 %	N / A	TC
APN Outdoor Group Limited	0.04 %	0.03 %	10	0.00 %	21	0.02 %	70 / 390	TC
Aramark	0.00 %	0.01 %	12	0.00 %	83	0.00 %	283 / 390	TC
Ardent Leisure Ltd	0.06 %	0.03 %	153	0.02 %	101	0.04 %	308 / 390	PRE
Argan Inc	0.05 %		14	0.00 %	22	0.02 %	N / A	TC
Aristocrat Leisure Ltd	0.14 %	0.35 %	25	0.00 %	34	0.03 %	113 / 390	TC
Asics Corp	0.00 %	0.00 %	1	0.00 %	41	0.00 %	148 / 390	CDP
Astra International Tbk PT	0.00 %	0.02 %	9	0.00 %	330	-0.00 %	381 / 390	ENV*
Athenahealth Inc	0.03 %		5	0.00 %	23	0.01 %	N / A	TC
Autoliv AB	0.00 %	0.01 %	12	0.00 %	122	0.00 %	326 / 390	AR*
Automotive Holdings Group Ltd	0.02 %	0.03 %	158	0.02 %	61	0.08 %	251 / 390	TC
AutoNation Inc	0.02 %	0.00 %	245	0.03 %	60	0.13 %	238 / 390	TC
AutoZone Inc	0.04 %	0.03 %	44	0.01 %	64	0.02 %	256 / 390	TC
Axel Springer SE	0.00 %	0.00 %	1	0.00 %	34	0.00 %	115 / 390	CDP
Bandai Namco Holdings Inc	0.00 %	0.01 %	2	0.00 %	73	0.00 %	268 / 390	PRE
Barratt Developments	0.00 %	0.01 %	4	0.00 %	48	0.00 %	182 / 390	AR*



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## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Bayer Motoren Werke AG (BMW)	0.04 %	0.04 %	63	0.01 %	27	0.08 %	83 / 390	ENV
BEC World PCL	0.01 %	0.00 %	1	0.00 %	11	0.00 %	11 / 390	TC
Bed Bath & Beyond Inc	0.00 %	0.01 %	16	0.00 %	61	0.01 %	249 / 390	TC
Belle International Holdings Ltd.	0.00 %	0.01 %	14	0.00 %	74	0.01 %	270 / 390	TC
Benesse Holdings Inc	0.00 %	0.00 %	2	0.00 %	34	0.00 %	116 / 390	TC
Berkeley Group Holdings Plc	0.00 %	0.01 %	2	0.00 %	49	0.00 %	188 / 390	CDP
Best Buy Co Inc	0.01 %	0.02 %	14	0.00 %	22	0.02 %	72 / 390	CDP
Big Lots Inc	0.01 %		97	0.01 %	90	0.03 %	N / A	TC
Block H & R Inc	0.00 %	0.01 %	1	0.00 %	20	0.00 %	57 / 390	TC
Borgwarner Inc	0.00 %	0.01 %	13	0.00 %	128	0.00 %	332 / 390	CDP*
Breville Group Ltd	0.08 %	0.03 %	51	0.01 %	41	0.04 %	147 / 390	TC
Bridgestone Corp	0.00 %	0.03 %	22	0.00 %	168	0.00 %	362 / 390	ENV
Brunswick Corp	0.05 %		99	0.01 %	75	0.04 %	N / A	TC
Burberry Group	0.04 %	0.01 %	12	0.00 %	24	0.02 %	79 / 390	CDP
Canadian Tire Corporation Limited	0.00 %	0.01 %	2	0.00 %	17	0.01 %	43 / 390	PRE
CARETECH HOLDINGS PLC	0.00 %		1	0.00 %	59	0.00 %	N / A	TC
Carmax Inc	0.00 %	0.01 %	9	0.00 %	60	0.01 %	240 / 390	TC
Carnival Corp	0.04 %	0.04 %	259	0.03 %	488	-0.01 %	387 / 390	PRE
Casio Computer Co	0.00 %	0.00 %	1	0.00 %	48	0.00 %	178 / 390	PRE
CBS Corp	0.01 %	0.03 %	2	0.00 %	18	0.00 %	50 / 390	TC
Charter Communications Inc A	0.50 %	0.09 %	20	0.00 %	11	0.07 %	18 / 390	TC
Cheng Shin Rubber Industry	0.00 %	0.00 %	2	0.00 %	163	0.00 %	358 / 390	TC
Children's Place, Inc	0.07 %		119	0.02 %	66	0.06 %	N / A	TC
Chipotle Mexican Grill Inc.	0.15 %	0.02 %	170	0.02 %	88	0.05 %	292 / 390	TC
Chow Tai Fook Jewelry Group Ltd	0.00 %		1	0.00 %	55	0.00 %	N / A	TC
Christian Dior SE	0.02 %	0.02 %	39	0.01 %	47	0.03 %	164 / 390	AR
Cineworld Group PLC	0.03 %		61	0.01 %	99	0.02 %	N / A	AR*
Coach Inc	0.00 %	0.01 %	3	0.00 %	60	0.00 %	242 / 390	PRE
Cogeco Communications Inc	0.00 %		0	0.00 %	30	0.00 %	N / A	OTH*
Collins Foods Ltd	0.01 %	0.02 %	24	0.00 %	94	0.01 %	303 / 390	TC
Comcast Corp	0.01 %	0.22 %	3	0.00 %	14	0.01 %	32 / 390	TC
Compass Group	0.06 %	0.04 %	55	0.01 %	28	0.07 %	86 / 390	ENV*
Continental AG	0.01 %	0.03 %	25	0.00 %	133	0.00 %	341 / 390	OTH
Crown Resorts Ltd	0.04 %	0.15 %	30	0.00 %	56	0.02 %	232 / 390	ENV
Ctrip.com International ADR	0.02 %	0.02 %	2	0.00 %	20	0.00 %	60 / 390	TC
Cyrela Brazil Realty S.A.	0.07 %		38	0.01 %	19	0.07 %	N / A	PRE



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## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Daimler AG	0.01 %	0.09 %	33	0.00 %	33	0.04 %	108 / 390	ENV
Darden Restaurants Inc	0.00 %	0.01 %	17	0.00 %	150	0.00 %	354 / 390	PRE
Delek Automotive Systems Ltd	0.00 %		2	0.00 %	59	0.00 %	N / A	TC
Delphi Automotive PLC	0.15 %	0.03 %	261	0.03 %	69	0.12 %	265 / 390	CDP
Denso Co	0.00 %	0.03 %	20	0.00 %	121	0.00 %	323 / 390	PRE
Dentsu Inc	0.00 %	0.01 %	3	0.00 %	22	0.00 %	74 / 390	TC
Dick's Sporting Goods Inc	0.00 %	0.01 %	8	0.00 %	53	0.01 %	216 / 390	TC
Discovery Communications Inc	0.01 %	0.01 %	2	0.00 %	12	0.01 %	26 / 390	TC
DISH Network Corp	0.00 %	0.02 %	1	0.00 %	11	0.00 %	19 / 390	TC
Dish TV India Ltd	0.04 %		4	0.00 %	12	0.01 %	N / A	TC
Dixons Carphone Plc	0.00 %	0.00 %	4	0.00 %	17	0.01 %	46 / 390	CDP
Dollar General Corp	0.02 %	0.02 %	31	0.00 %	49	0.02 %	190 / 390	TC
Dollar Tree Inc	0.00 %	0.02 %	4	0.00 %	50	0.00 %	199 / 390	TC
Dollarama Inc	0.00 %	0.01 %	1	0.00 %	49	0.00 %	189 / 390	TC
Domino's Pizza Enterprises Ltd	0.00 %	0.12 %	1	0.00 %	93	0.00 %	302 / 390	TC
Domino's Pizza Inc	0.00 %	0.01 %	2	0.00 %	85	0.00 %	287 / 390	TC
Don Quijote Holdings Co Ltd	0.00 %	0.01 %	3	0.00 %	53	0.00 %	221 / 390	TC
Dongfeng Motor Group Co. Ltd. - H Shares	0.04 %	0.00 %	201	0.03 %	32	0.22 %	100 / 390	TC
Dufry AG	0.00 %	0.01 %	4	0.00 %	48	0.00 %	180 / 390	TC
EBOS Group Ltd	0.01 %		32	0.00 %	38	0.03 %	N / A	TC
Electrolux AB	0.00 %	0.01 %	13	0.00 %	123	0.00 %	327 / 390	ENV*
Eutelsat Communications Promesses	0.00 %	0.00 %	1	0.00 %	20	0.00 %	55 / 390	TC
Event Hospitality and Entertainment Ltd	0.08 %		36	0.00 %	25	0.05 %	N / A	TC
Expedia	0.00 %	0.02 %	1	0.00 %	20	0.00 %	58 / 390	TC
Fairfax Media Ltd	0.17 %	0.08 %	235	0.03 %	53	0.15 %	225 / 390	PRE
Fast Retailing Co	0.00 %	0.02 %	1	0.00 %	39	0.00 %	134 / 390	ENV*
Faurecia	0.00 %		20	0.00 %	126	0.00 %	N / A	AR*
Ferrari NV	0.00 %	0.01 %	1	0.00 %	32	0.00 %	105 / 390	TC
Fiat Chrysler Automobiles NV	0.01 %	0.01 %	85	0.01 %	46	0.06 %	163 / 390	CDP
Flight Center Travel Group Ltd	0.03 %	0.05 %	18	0.00 %	21	0.03 %	66 / 390	TC
Foot Locker Inc	0.00 %	0.01 %	6	0.00 %	52	0.00 %	212 / 390	TC
Forbo Hldgs AG Br	0.00 %		2	0.00 %	150	0.00 %	N / A	TC
Ford Motor Co	0.01 %	0.05 %	44	0.01 %	40	0.04 %	145 / 390	CDP
Fuji Television Network Inc	0.00 %		0	0.00 %	8	0.00 %	N / A	PRE
G8 Education Limited	0.17 %	0.05 %	124	0.02 %	49	0.09 %	186 / 390	TC
Galaxy Entertainment Group Ltd.	0.02 %	0.02 %	21	0.00 %	103	0.01 %	310 / 390	TC



S&P Dow Jones Indices  
ESG Analysis

# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
GameStop Corp A	0.00 %		27	0.00 %	50	0.02 %	N / A	TC
Gap Inc	0.01 %	0.01 %	13	0.00 %	38	0.01 %	131 / 390	CDP
Garmin Ltd	0.00 %	0.01 %	1	0.00 %	39	0.00 %	138 / 390	TC
General Motors Company	0.02 %	0.06 %	96	0.01 %	51	0.06 %	206 / 390	ENV*
Genting Bhd	0.05 %	0.01 %	554	0.07 %	513	-0.03 %	388 / 390	TC
Genuine Parts Co	0.00 %	0.02 %	4	0.00 %	35	0.00 %	119 / 390	TC
Gildan Activewear Inc	0.02 %	0.01 %	37	0.01 %	114	0.01 %	316 / 390	ENV*
GKN	0.00 %	0.01 %	26	0.00 %	164	0.00 %	360 / 390	CDP
Goodyear Tire & Rubber Co	0.00 %	0.01 %	60	0.01 %	189	0.00 %	369 / 390	PRE
Graham Holdings Co	0.00 %		0	0.00 %	26	0.00 %	N / A	TC
Great Wall Motor Co. Ltd. - H Shares	0.00 %	0.00 %	3	0.00 %	42	0.00 %	150 / 390	TC
Greencross Ltd	0.00 %	0.03 %	4	0.00 %	45	0.00 %	160 / 390	TC
GUD Hldgs Ltd	0.08 %	0.03 %	220	0.03 %	144	0.03 %	351 / 390	TC
Hakuhodo DY Holdings	0.00 %	0.00 %	2	0.00 %	22	0.00 %	75 / 390	TC
Hanesbrands Inc	0.00 %	0.01 %	2	0.00 %	45	0.00 %	158 / 390	CDP
Hankook Tire Co Ltd/New	0.00 %	0.00 %	5	0.00 %	222	0.00 %	376 / 390	CDP
Harley-Davidson Inc	0.03 %	0.01 %	90	0.01 %	133	0.02 %	339 / 390	ENV*
Harvey Norman Hldgs Ltd	0.05 %	0.09 %	71	0.01 %	114	0.02 %	318 / 390	PRE
Hasbro Inc	0.00 %	0.01 %	3	0.00 %	59	0.00 %	236 / 390	PRE
Haseko Corp	0.06 %		260	0.03 %	72	0.11 %	N / A	TC
Hennes & Mauritz AB B	0.00 %	0.03 %	1	0.00 %	17	0.00 %	47 / 390	ENV*
Hermes Intl	0.01 %	0.02 %	7	0.00 %	131	0.00 %	337 / 390	TC
Hikari Tsushin Inc	0.00 %	0.00 %	3	0.00 %	40	0.00 %	143 / 390	TC
Hilton Worldwide Holdings Inc	0.00 %	0.01 %	7	0.00 %	189	0.00 %	370 / 390	PRE
Home Depot Inc	0.02 %	0.22 %	11	0.00 %	32	0.01 %	101 / 390	CDP
Honda Motor Co	0.07 %	0.06 %	371	0.05 %	69	0.17 %	263 / 390	CDP*
Hornbach Baumarkt AG	0.00 %		3	0.00 %	57	0.00 %	N / A	TC
Hornbach Holding AG & Co KGaA	0.00 %		19	0.00 %	54	0.01 %	N / A	TC
Horton D.R. Inc	0.00 %	0.01 %	6	0.00 %	73	0.00 %	267 / 390	TC
HT&E Ltd	0.37 %	0.02 %	505	0.07 %	38	0.46 %	129 / 390	TC
Hugo Boss AG	0.00 %	0.01 %	2	0.00 %	52	0.00 %	211 / 390	OTH
Husqvarna AB	0.00 %	0.00 %	4	0.00 %	90	0.00 %	296 / 390	AR
Hyatt Hotels Corp	0.00 %		2	0.00 %	280	0.00 %	N / A	PRE
Hyundai Mobis	0.00 %	0.02 %	10	0.00 %	104	0.00 %	311 / 390	CDP
Hyundai Motor Co	0.01 %	0.03 %	22	0.00 %	44	0.02 %	153 / 390	CDP
IDP Education Ltd	0.07 %	0.02 %	23	0.00 %	31	0.03 %	93 / 390	TC



S&P Dow Jones Indices  
ESG Analysis

# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mnn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Iida Group Holdings Co Ltd	0.00 %	0.00 %	4	0.00 %	75	0.00 %	271 / 390	TC
Imperial Hldgs Ltd	0.00 %	0.00 %	5	0.00 %	99	0.00 %	307 / 390	CDP
Inchcape	0.00 %		1	0.00 %	17	0.00 %	N / A	ENV*
Inditex SA	0.04 %	0.05 %	15	0.00 %	47	0.01 %	165 / 390	AR*
InterContinental Hotels Group Plc	0.00 %	0.01 %	13	0.00 %	949	-0.00 %	389 / 390	ENV*
Interpublic Group Cos	0.00 %	0.01 %	2	0.00 %	21	0.00 %	68 / 390	TC
Invocare Ltd	0.01 %	0.05 %	5	0.00 %	49	0.00 %	185 / 390	PRE
ISELECT LIMITED	0.00 %	0.01 %	0	0.00 %	16	0.00 %	41 / 390	TC
Isetan Mitsukoshi Holdings Ltd	0.00 %	0.00 %	8	0.00 %	53	0.00 %	219 / 390	TC
Isuzu Motors	0.00 %	0.01 %	3	0.00 %	32	0.00 %	94 / 390	CDP
ITV Plc	0.00 %	0.01 %	0	0.00 %	14	0.00 %	31 / 390	AR*
J Front Retailing Co Ltd	0.00 %	0.00 %	11	0.00 %	51	0.01 %	207 / 390	TC
Jardine Cycle & Carriage Ltd	0.00 %	0.00 %	9	0.00 %	77	0.00 %	273 / 390	TC
Jb Hi-Fi	0.04 %	0.09 %	100	0.01 %	55	0.06 %	230 / 390	TC
JC Decaux Intl SA	0.00 %	0.00 %	1	0.00 %	45	0.00 %	157 / 390	CDP
JD Sports Fashion	0.00 %		2	0.00 %	27	0.00 %	N / A	AR*
JD.com Inc ADR	0.33 %	0.03 %	502	0.07 %	48	0.36 %	177 / 390	TC
Johnson Controls International plc	0.01 %	0.05 %	27	0.00 %	146	0.00 %	352 / 390	CDP
Kathmandu Holdings Limited	0.00 %		3	0.00 %	46	0.00 %	N / A	ENV
Kering	0.00 %	0.02 %	1	0.00 %	26	0.00 %	81 / 390	CDP
Kia Motors Corp	0.00 %	0.01 %	11	0.00 %	39	0.01 %	136 / 390	ENV*
Kingfisher	0.00 %	0.01 %	7	0.00 %	32	0.01 %	95 / 390	CDP
Kohl's Corp	0.01 %	0.01 %	23	0.00 %	43	0.02 %	152 / 390	ENV*
Koito Manufacturing Co	0.00 %	0.01 %	3	0.00 %	110	0.00 %	314 / 390	TC
L Brands Inc	0.00 %	0.01 %	2	0.00 %	35	0.00 %	120 / 390	CDP
Lagardere S.C.A.	0.00 %	0.00 %	7	0.00 %	28	0.01 %	88 / 390	AR*
Las Vegas Sands	0.00 %	0.03 %	4	0.00 %	80	0.00 %	281 / 390	PRE
Lear Corp	0.00 %	0.01 %	35	0.00 %	122	0.01 %	325 / 390	PRE
Leggett & Platt	0.00 %	0.01 %	6	0.00 %	133	0.00 %	340 / 390	TC
Lennar Corp	0.00 %	0.01 %	6	0.00 %	68	0.00 %	262 / 390	TC
LG Electronics Inc	0.00 %	0.01 %	32	0.00 %	62	0.02 %	252 / 390	ENV*
Li & Fung Ltd.	0.00 %	0.00 %	3	0.00 %	12	0.01 %	24 / 390	ENV*
Liberty Broadband Corp	0.00 %	0.01 %	0	0.00 %	19	0.00 %	53 / 390	TC
Liberty Global plc	0.05 %	0.04 %	31	0.00 %	30	0.04 %	91 / 390	PRE
Liberty Interactive Corp QVC Group	0.00 %	0.01 %	1	0.00 %	11	0.00 %	20 / 390	TC
Liberty Media SiriusXM	0.01 %	0.02 %	1	0.00 %	12	0.00 %	25 / 390	TC



S&P Dow Jones Indices  
ESG Analysis

# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Linamar Corp	0.00 %	0.00 %	9	0.00 %	130	0.00 %	334 / 390	TC
Lions Gate Entertainment (US)	0.00 %		0	0.00 %	19	0.00 %	N / A	TC
LKQ Corp	0.00 %	0.01 %	3	0.00 %	38	0.00 %	130 / 390	TC
Lotte Shopping	0.06 %	0.00 %	302	0.04 %	33	0.33 %	111 / 390	PRE
Lowe's Cos Inc	0.06 %	0.09 %	83	0.01 %	48	0.06 %	172 / 390	PRE
Lululemon Athletica inc	0.00 %	0.01 %	0	0.00 %	19	0.00 %	54 / 390	CDP
Luxtistica Group SpA	0.00 %	0.01 %	1	0.00 %	50	0.00 %	200 / 390	TC
LVMH-Moet Vuitton	0.10 %	0.08 %	65	0.01 %	48	0.05 %	174 / 390	AR*
M6 - Metropole TV	0.01 %		0	0.00 %	5	0.00 %	N / A	AR*
Macy's Inc	0.00 %	0.01 %	24	0.00 %	53	0.01 %	222 / 390	TC
Magna International Inc	0.00 %	0.02 %	37	0.00 %	136	0.01 %	342 / 390	CDP
Mando Corp	0.04 %		367	0.05 %	124	0.07 %	N / A	TC
Mantra Group Pty Ltd	0.09 %	0.03 %	176	0.02 %	89	0.06 %	295 / 390	TC
Manutan Intl	0.00 %		4	0.00 %	48	0.00 %	N / A	TC
Marks & Spencer Group	0.00 %	0.01 %	8	0.00 %	36	0.01 %	123 / 390	CDP*
Marriott Intl	0.03 %	0.04 %	94	0.01 %	213	0.01 %	373 / 390	PRE
Marui Group Co Ltd	0.00 %	0.00 %	2	0.00 %	35	0.00 %	121 / 390	CDP
Maruti Suzuki India Ltd	0.12 %	0.01 %	70	0.01 %	51	0.05 %	204 / 390	ENV*
Mattel Inc	0.00 %	0.01 %	4	0.00 %	78	0.00 %	277 / 390	ENV*
Mazda Motor Corp	0.00 %	0.01 %	12	0.00 %	39	0.01 %	140 / 390	CDP
McDonald's Corp	0.03 %	0.13 %	24	0.00 %	82	0.01 %	282 / 390	PRE
McDonald's Hldgs Co Japan	0.00 %	0.00 %	2	0.00 %	89	0.00 %	294 / 390	TC
Mediaset SpA	0.00 %		0	0.00 %	11	0.00 %	N / A	AR*
Megacable Holdings SAB de CV	0.06 %		24	0.00 %	14	0.07 %	N / A	TC
Melco Resorts & Entertainment Limited	0.00 %	0.00 %	1	0.00 %	47	0.00 %	169 / 390	TC
Meredith Corp	0.07 %		27	0.00 %	20	0.05 %	N / A	TC
Merlin Entertainments Plc	0.03 %	0.01 %	22	0.00 %	60	0.01 %	246 / 390	AR*
Metall Zug AG Reg	0.00 %		12	0.00 %	132	0.00 %	N / A	TC
MGM China Holdings Ltd	0.00 %	0.00 %	0	0.00 %	37	0.00 %	126 / 390	AR*
MGM Resorts International	0.00 %	0.02 %	5	0.00 %	79	0.00 %	280 / 390	PRE
Michael Kors Holdings Ltd	0.00 %	0.01 %	2	0.00 %	45	0.00 %	161 / 390	TC
Michelin CGDE A Beiges	0.00 %	0.03 %	31	0.00 %	179	0.00 %	368 / 390	AR*
Mitsubishi Motors Corp	0.00 %	0.00 %	12	0.00 %	48	0.01 %	179 / 390	TC
Mobilezone Holding AG	0.01 %		7	0.00 %	19	0.01 %	N / A	TC
Mohawk Industries Inc	0.00 %	0.02 %	19	0.00 %	315	-0.00 %	379 / 390	PRE
Myer Holdings Ltd	0.02 %	0.03 %	141	0.02 %	58	0.08 %	235 / 390	ENV*



S&P Dow Jones Indices  
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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
NACCO Industries Inc	0.00 %		16	0.00 %	356	-0.00 %	N / A	TC
Navitas Limited	0.19 %	0.04 %	514	0.07 %	128	0.09 %	333 / 390	TC
NetFlix Inc	0.00 %	0.08 %	0	0.00 %	16	0.00 %	38 / 390	TC
Neuca S.A.	0.00 %		4	0.00 %	36	0.00 %	N / A	TC
Newell Brands Inc	0.00 %	0.03 %	3	0.00 %	107	0.00 %	312 / 390	CDP
News Corp	0.32 %	0.03 %	667	0.09 %	54	0.41 %	229 / 390	CDP
Next	0.05 %	0.01 %	45	0.01 %	32	0.05 %	99 / 390	ENV*
NGK Spark Plug	0.00 %	0.01 %	5	0.00 %	164	0.00 %	359 / 390	CDP
Nick Scali Limited	0.06 %		78	0.01 %	130	0.01 %	N / A	TC
NIKE Inc	0.19 %	0.09 %	98	0.01 %	45	0.07 %	159 / 390	CDP
Nikon Corp	0.00 %	0.01 %	5	0.00 %	65	0.00 %	257 / 390	CDP
Nine Entertainment Co. Holdings Limited	0.26 %	0.03 %	115	0.02 %	11	0.40 %	16 / 390	TC
Nippon Television Holdings Inc	0.03 %		11	0.00 %	14	0.03 %	N / A	TC
Nissan Motor Co	0.11 %	0.03 %	407	0.05 %	44	0.32 %	154 / 390	CDP
Nitori Holdings Co	0.00 %	0.01 %	1	0.00 %	60	0.00 %	244 / 390	TC
NOK Corp	0.00 %	0.00 %	11	0.00 %	140	0.00 %	349 / 390	TC
Nokian Renkaat Oyj	0.00 %	0.01 %	2	0.00 %	114	0.00 %	317 / 390	CDP
Nordstrom Inc	0.00 %	0.01 %	7	0.00 %	28	0.01 %	85 / 390	CDP
Norwegian Cruise Line Holdings Ltd	0.02 %	0.01 %	252	0.03 %	980	-0.02 %	390 / 390	TC
NutriSystem Inc.	0.06 %		33	0.00 %	71	0.01 %	N / A	TC
O'Reilly Automotive	0.00 %	0.03 %	3	0.00 %	60	0.00 %	245 / 390	TC
Ocado Group PLC	0.07 %		119	0.02 %	49	0.08 %	N / A	AR*
Omnicom Group	0.04 %	0.03 %	25	0.00 %	20	0.05 %	61 / 390	PRE
Onward Holdings Co Ltd	0.00 %		16	0.00 %	64	0.01 %	N / A	TC
Ooh!Media Limited	0.09 %	0.02 %	25	0.00 %	21	0.04 %	69 / 390	TC
Otoya Co Ltd	0.00 %		4	0.00 %	93	0.00 %	N / A	TC
OPAP S.A.	0.00 %	0.00 %	1	0.00 %	40	0.00 %	142 / 390	PRE
Oriental Land Co	0.00 %	0.02 %	1	0.00 %	47	0.00 %	171 / 390	ENV*
Paddy Power Betfair Plc	0.00 %	0.01 %	0	0.00 %	36	0.00 %	125 / 390	TC
Panasonic Corp	0.01 %	0.03 %	42	0.01 %	91	0.01 %	301 / 390	CDP
Pandora A/S	0.00 %	0.02 %	0	0.00 %	49	0.00 %	187 / 390	TC
Pearson	0.00 %	0.01 %	2	0.00 %	28	0.00 %	84 / 390	ENV*
Pegas Nonwovens	0.00 %		5	0.00 %	263	0.00 %	N / A	TC
Penney J.C. Inc	0.00 %		6	0.00 %	68	0.00 %	N / A	PRE
Penske Auto Group	0.00 %		7	0.00 %	60	0.00 %	N / A	TC
Persimmon	0.00 %	0.01 %	2	0.00 %	49	0.00 %	191 / 390	AR





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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Peugeot SA	0.01 %	0.01 %	44	0.01 %	39	0.04 %	139 / 390	ENV
Piaggio & C SpA	0.00 %		12	0.00 %	162	0.00 %	N / A	CDP
Polaris Inds Inc	0.02 %	0.01 %	84	0.01 %	116	0.02 %	320 / 390	TC
Porsche Automobil Holding SE	0.00 %	0.01 %	3	0.00 %	23	0.01 %	76 / 390	AR*
Pou Chen Corp	0.00 %	0.00 %	3	0.00 %	97	0.00 %	304 / 390	ENV*
Prada SpA	0.00 %		1	0.00 %	48	0.00 %	N / A	ENV*
Premier Investments Ltd	0.08 %	0.04 %	63	0.01 %	53	0.04 %	226 / 390	TC
ProSiebenSat.1 Media SE	0.00 %	0.01 %	0	0.00 %	7	0.00 %	4 / 390	ENV*
Publicis Groupe	0.00 %	0.02 %	1	0.00 %	13	0.00 %	28 / 390	ENV
Pulte Group Inc	0.00 %	0.01 %	7	0.00 %	69	0.00 %	264 / 390	TC
PVH Corp	0.00 %	0.01 %	3	0.00 %	28	0.00 %	87 / 390	CDP
Rakuten Inc	0.00 %	0.01 %	0	0.00 %	17	0.00 %	49 / 390	TC
Ralph Lauren Corp	0.00 %	0.01 %	2	0.00 %	24	0.00 %	80 / 390	PRE
REA Group Ltd	0.02 %	0.10 %	19	0.00 %	404	-0.00 %	383 / 390	CDP
RELX Plc	0.00 %	0.05 %	1	0.00 %	14	0.00 %	30 / 390	ENV*
Renault SA	0.00 %	0.02 %	14	0.00 %	39	0.01 %	137 / 390	CDP
Restaurant Brands International Inc.	0.00 %	0.02 %	1	0.00 %	78	0.00 %	276 / 390	TC
Restaurant Brands New Zealand Ltd	0.00 %		1	0.00 %	94	0.00 %	N / A	TC
Richemont, Cie Financiere A Br	0.09 %	0.05 %	34	0.00 %	43	0.03 %	151 / 390	CDP
Rinnai Corp	0.00 %	0.00 %	3	0.00 %	115	0.00 %	319 / 390	CDP
Ross Stores Inc	0.00 %	0.03 %	3	0.00 %	53	0.00 %	217 / 390	TC
Royal Caribbean Cruises Ltd	0.00 %	0.02 %	22	0.00 %	409	-0.00 %	384 / 390	CDP
RTL Group	0.00 %	0.00 %	0	0.00 %	11	0.00 %	9 / 390	AR*
Ryohin Keikaku Co	0.00 %	0.01 %	1	0.00 %	50	0.00 %	197 / 390	TC
SACI Falabella	0.00 %	0.01 %	1	0.00 %	52	0.00 %	215 / 390	TC
Sally Beauty Co Inc	0.02 %		55	0.01 %	47	0.04 %	N / A	TC
Sands China Ltd.	0.01 %	0.01 %	12	0.00 %	123	0.00 %	328 / 390	CDP
Sankyo Co Ltd	0.00 %	0.00 %	1	0.00 %	79	0.00 %	279 / 390	TC
Schaeffler AG	0.00 %	0.00 %	8	0.00 %	136	0.00 %	343 / 390	TC
Schibsted AS	0.00 %	0.00 %	1	0.00 %	27	0.00 %	82 / 390	CDP
Scripps Networks Interactive	0.00 %	0.01 %	0	0.00 %	7	0.00 %	3 / 390	PRE
SEB SA	0.00 %	0.00 %	1	0.00 %	127	0.00 %	330 / 390	TC
Sega Sammy Holdings Inc	0.02 %	0.00 %	30	0.00 %	67	0.01 %	259 / 390	CDP
Sekisui Chemical Co	0.00 %	0.01 %	12	0.00 %	132	0.00 %	338 / 390	CDP
Sekisui House	0.00 %	0.01 %	3	0.00 %	22	0.00 %	73 / 390	ENV
SES	0.00 %	0.01 %	0	0.00 %	15	0.00 %	34 / 390	PRE





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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Seven West Media Ltd	0.01 %	0.02 %	14	0.00 %	20	0.03 %	56 / 390	TC
SFR Group	0.00 %	0.00 %	0	0.00 %	11	0.00 %	15 / 390	AR*
Shangri-La Asia Ltd.	0.00 %	0.00 %	14	0.00 %	460	-0.00 %	385 / 390	CDP*
Sharp Corp	0.00 %	0.01 %	2	0.00 %	77	0.00 %	275 / 390	ENV
Shaw Communications Inc	0.01 %	0.01 %	4	0.00 %	17	0.01 %	44 / 390	TC
Shimamura Co	0.00 %	0.00 %	3	0.00 %	53	0.00 %	220 / 390	TC
Shimano Inc	0.04 %	0.01 %	54	0.01 %	149	0.01 %	353 / 390	TC
Signet Jewelers Ltd	0.00 %	0.01 %	6	0.00 %	53	0.00 %	218 / 390	TC
Singapore Press Hldgs	0.01 %	0.01 %	4	0.00 %	56	0.00 %	234 / 390	TC
SJM Holdings Ltd.	0.00 %	0.00 %	9	0.00 %	91	0.00 %	300 / 390	TC
Sky Network Television Limited	0.02 %	0.01 %	6	0.00 %	12	0.02 %	23 / 390	TC
Sky Plc	0.04 %	0.02 %	12	0.00 %	11	0.04 %	12 / 390	PRE
SkyCity Entertainment Group	0.02 %	0.03 %	12	0.00 %	59	0.01 %	237 / 390	TC
Skylark Co Ltd	0.05 %		152	0.02 %	88	0.05 %	N / A	TC
Sodexo	0.00 %	0.01 %	4	0.00 %	30	0.00 %	89 / 390	PRE
Sony Corp	0.04 %	0.05 %	50	0.01 %	23	0.08 %	77 / 390	CDP
Southern Cross Media Group Limited	0.29 %	0.03 %	72	0.01 %	11	0.24 %	21 / 390	TC
Specialty Fashion Group Ltd	0.02 %		261	0.03 %	47	0.19 %	N / A	TC
Stanley Electric Co	0.00 %	0.01 %	3	0.00 %	204	0.00 %	372 / 390	ENV*
Staples Inc	0.01 %	0.01 %	19	0.00 %	23	0.03 %	78 / 390	CDP
Starbucks Corp	0.05 %	0.10 %	18	0.00 %	44	0.01 %	155 / 390	CDP
Start Today Co Ltd	0.00 %	0.00 %	0	0.00 %	52	0.00 %	210 / 390	TC
SUBARU CORPORATION	0.00 %	0.03 %	6	0.00 %	40	0.01 %	141 / 390	CDP
Sumitomo Electric Industries	0.00 %	0.02 %	30	0.00 %	137	0.00 %	346 / 390	ENV*
Sumitomo Rubber Industries	0.00 %	0.00 %	17	0.00 %	171	0.00 %	364 / 390	CDP
Super Retail Group Ltd	0.18 %	0.05 %	401	0.05 %	56	0.24 %	231 / 390	PRE
Suzuki Motor Corp	0.00 %	0.02 %	9	0.00 %	48	0.01 %	181 / 390	TC
Swatch Group AG	0.10 %	0.02 %	89	0.01 %	60	0.05 %	241 / 390	TC
Tabcorp Hldgs Ltd	0.30 %	0.13 %	92	0.01 %	16	0.21 %	42 / 390	ENV*
Takashimaya Co	0.00 %	0.00 %	11	0.00 %	48	0.01 %	173 / 390	TC
Target Corp	0.01 %	0.04 %	20	0.00 %	40	0.02 %	144 / 390	CDP
Tata Motors Ltd	0.00 %	0.02 %	5	0.00 %	34	0.00 %	114 / 390	TC
Tatts Group Limited	0.03 %	0.19 %	9	0.00 %	16	0.02 %	40 / 390	AR
Taylor Wimpey	0.00 %	0.01 %	2	0.00 %	47	0.00 %	167 / 390	CDP
Techtronic Industries Co. Ltd.	0.39 %	0.01 %	813	0.11 %	85	0.28 %	286 / 390	TC
TEGNA Inc	0.00 %	0.01 %	1	0.00 %	16	0.00 %	39 / 390	TC



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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$m <sup>n</sup> )	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Telenet Group Holding NV	0.00 %	0.00 %	0	0.00 %	9	0.00 %	5 / 390	PRE
Tesla, Inc	0.00 %	0.04 %	0	0.00 %	36	0.00 %	124 / 390	TC
The Priceline Group Inc	0.17 %	0.11 %	13	0.00 %	16	0.03 %	37 / 390	TC
The Reject Shop Limited	0.04 %	0.01 %	216	0.03 %	52	0.14 %	214 / 390	TC
The Star Entertainment Group Limited	0.03 %	0.14 %	28	0.00 %	61	0.01 %	247 / 390	ENV*
Thomas Cook Group Plc	0.00 %		24	0.00 %	299	0.00 %	N / A	ENV*
Thorn Group Ltd	0.00 %	0.01 %	4	0.00 %	79	0.00 %	278 / 390	TC
Tiffany & Co	0.00 %	0.01 %	1	0.00 %	18	0.00 %	51 / 390	CDP
Time Warner Inc	0.13 %	0.09 %	19	0.00 %	10	0.07 %	6 / 390	PRE
TJX Cos Inc	0.01 %	0.06 %	4	0.00 %	30	0.00 %	92 / 390	CDP
Toho Co	0.00 %	0.00 %	0	0.00 %	32	0.00 %	97 / 390	TC
Toho Holdings Co Ltd	0.00 %		10	0.00 %	46	0.01 %	N / A	TC
Toll Brothers Inc	0.00 %	0.01 %	6	0.00 %	74	0.00 %	269 / 390	TC
Topy Industries	0.00 %		20	0.00 %	264	0.00 %	N / A	TC
Toyoda Gosei Co	0.00 %	0.00 %	19	0.00 %	112	0.00 %	315 / 390	ENV*
Toyota Industries Corp	0.00 %	0.01 %	13	0.00 %	108	0.00 %	313 / 390	CDP
Toyota Motor Corp	0.06 %	0.17 %	123	0.02 %	42	0.10 %	149 / 390	PRE
Tractor Supply Co	0.00 %	0.01 %	3	0.00 %	51	0.00 %	209 / 390	TC
Trade Me Ltd	0.08 %	0.04 %	16	0.00 %	51	0.01 %	203 / 390	TC
TripAdvisor Inc.	0.00 %	0.01 %	0	0.00 %	20	0.00 %	59 / 390	TC
TUI AG	0.00 %	0.01 %	56	0.01 %	219	0.00 %	375 / 390	CDP
Twenty-First Century Fox Inc	0.01 %	0.06 %	2	0.00 %	11	0.01 %	7 / 390	PRE
Ulta Beauty, Inc	0.00 %	0.02 %	1	0.00 %	47	0.00 %	168 / 390	TC
Under Armour Inc	0.00 %	0.01 %	1	0.00 %	35	0.00 %	118 / 390	TC
Urban Outfitters	0.02 %		47	0.01 %	48	0.03 %	N / A	TC
USS Co Ltd	0.00 %	0.00 %	0	0.00 %	38	0.00 %	132 / 390	TC
Valeo	0.00 %	0.02 %	17	0.00 %	137	0.00 %	347 / 390	AR
Valora Hldg AG	0.02 %		70	0.01 %	48	0.05 %	N / A	TC
VF Corp	0.00 %	0.02 %	2	0.00 %	38	0.00 %	128 / 390	CDP*
Viacom Inc	0.00 %	0.02 %	1	0.00 %	11	0.00 %	14 / 390	PRE
Village Roadshow Ltd	0.01 %	0.01 %	25	0.00 %	70	0.01 %	266 / 390	ENV
Vivendi SA	0.01 %	0.02 %	2	0.00 %	16	0.00 %	35 / 390	CDP
Volkswagen AG	0.02 %	0.04 %	93	0.01 %	50	0.06 %	195 / 390	CDP
Walt Disney Co	0.21 %	0.21 %	76	0.01 %	33	0.08 %	112 / 390	PRE
Webjet Ltd	0.06 %	0.04 %	6	0.00 %	21	0.01 %	62 / 390	TC
Wheelock Properties (S) Ltd	0.00 %		0	0.00 %	66	0.00 %	N / A	TC



S&P Dow Jones Indices  
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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Whirlpool Corp	0.00 %	0.02 %	31	0.00 %	150	0.00 %	355 / 390	ENV*
Whitbread	0.03 %	0.01 %	36	0.00 %	63	0.02 %	254 / 390	CDP
William Hill	0.00 %	0.00 %	2	0.00 %	33	0.00 %	110 / 390	AR*
Wolters Kluwer NV	0.00 %	0.02 %	0	0.00 %	11	0.00 %	10 / 390	ENV*
WPP AUNZ Ltd	0.06 %	0.01 %	21	0.00 %	21	0.04 %	71 / 390	TC
WPP Plc	0.11 %	0.03 %	44	0.01 %	16	0.10 %	36 / 390	PRE
Wyndham Worldwide Corp	0.00 %	0.01 %	5	0.00 %	68	0.00 %	261 / 390	CDP
Wynn Macau	0.03 %	0.00 %	27	0.00 %	91	0.01 %	298 / 390	TC
Wynn Resorts Ltd	0.01 %	0.01 %	14	0.00 %	91	0.00 %	299 / 390	TC
Yamada Denki Co	0.01 %	0.00 %	73	0.01 %	52	0.05 %	213 / 390	TC
Yamaha Corp	0.00 %	0.01 %	1	0.00 %	60	0.00 %	243 / 390	CDP*
Yamaha Motor Co	0.00 %	0.01 %	9	0.00 %	117	0.00 %	321 / 390	ENV*
Yokohama Rubber Co	0.00 %	0.00 %	14	0.00 %	167	0.00 %	361 / 390	PRE
Yue Yuen Industrial (Holdings) Ltd.	0.00 %	0.00 %	8	0.00 %	86	0.00 %	290 / 390	TC
Yum China Holdings Inc	0.00 %	0.01 %	2	0.00 %	272	0.00 %	378 / 390	CDP
Yum! Brands Inc	0.00 %	0.03 %	11	0.00 %	191	0.00 %	371 / 390	CDP*
Zalando SE	0.00 %	0.00 %	1	0.00 %	48	0.00 %	175 / 390	TC
Zensho Holdings Co Ltd	0.01 %		32	0.00 %	89	0.01 %	N / A	TC
<b>Consumer Staples</b>	<b>10.07 %</b>	<b>8.33 %</b>	<b>63,591</b>	<b>8.51 %</b>	<b>144</b>	<b>11.15 %</b>		
AdvancePierre Foods Holdings, Inc.	0.00 %		38	0.01 %	320	-0.00 %	N / A	TC
Aeon Co Ltd	0.00 %	0.01 %	32	0.00 %	46	0.02 %	34 / 215	CDP
Ahold Delhaize Koninklijke NV	0.01 %	0.03 %	32	0.00 %	67	0.01 %	65 / 215	ENV*
Ain Holdings Inc	0.14 %		228	0.03 %	51	0.15 %	N / A	TC
Ajinomoto Co	0.00 %	0.01 %	24	0.00 %	326	-0.00 %	170 / 215	CDP
Alimentation Couche Tard Inc	0.00 %	0.02 %	5	0.00 %	53	0.00 %	52 / 215	TC
Alliance One International Inc	0.00 %		73	0.01 %	89	0.02 %	N / A	TC
Altria Group Inc	0.06 %	0.17 %	40	0.01 %	104	0.01 %	96 / 215	PRE
Ambev S.A.	0.04 %	0.03 %	23	0.00 %	116	0.00 %	106 / 215	ENV*
Anheuser Busch Inbev NV	0.18 %	0.10 %	307	0.04 %	188	0.02 %	143 / 215	PRE
Archer-Daniels-Midland Co	0.01 %	0.03 %	355	0.05 %	497	-0.02 %	193 / 215	CDP
ARYZTA	0.00 %	0.00 %	11	0.00 %	125	0.00 %	114 / 215	TC
Asahi Group Holdings Ltd	0.00 %	0.02 %	14	0.00 %	130	0.00 %	119 / 215	AR*
Asaleo Care Ltd	0.01 %	0.02 %	133	0.02 %	425	-0.01 %	183 / 215	AR*
Associated British Foods	0.00 %	0.01 %	42	0.01 %	468	-0.00 %	190 / 215	CDP
Australian Agricultural Co	0.00 %	0.02 %	11	0.00 %	287	0.00 %	159 / 215	TC



S&P Dow Jones Indices  
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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Avon Products	0.00 %		2	0.00 %	44	0.00 %	N / A	PRE
Barry Callebaut AG	0.00 %	0.00 %	21	0.00 %	181	0.00 %	139 / 215	AR
Beiersdorf AG	0.14 %	0.01 %	70	0.01 %	44	0.05 %	33 / 215	ENV*
Bell AG Basel Reg	0.00 %		86	0.01 %	583	-0.01 %	N / A	TC
Blackmores Ltd	0.00 %	0.05 %	1	0.00 %	51	0.00 %	47 / 215	TC
BRF S.A.	0.00 %	0.01 %	9	0.00 %	355	-0.00 %	176 / 215	CDP
British American Tobacco Plc	0.17 %	0.15 %	105	0.01 %	103	0.03 %	94 / 215	AR*
Brown-Forman Corp	0.00 %	0.01 %	3	0.00 %	88	0.00 %	84 / 215	PRE
Bunge Ltd	0.01 %	0.01 %	608	0.08 %	424	-0.02 %	182 / 215	PRE
Calbee Inc	0.00 %	0.00 %	8	0.00 %	303	-0.00 %	164 / 215	AR*
Campbell Soup Co	0.01 %	0.01 %	54	0.01 %	272	0.00 %	157 / 215	PRE
Carlsberg AS	0.05 %	0.01 %	228	0.03 %	138	0.04 %	123 / 215	ENV*
Carrefour SA	0.00 %	0.02 %	33	0.00 %	39	0.03 %	23 / 215	AR*
Casino Guichard-Perrachon	0.01 %	0.00 %	72	0.01 %	61	0.04 %	62 / 215	PRE
CECONOMY AG	0.01 %	0.01 %	110	0.01 %	38	0.10 %	19 / 215	ENV*
Cencosud SA	0.00 %	0.01 %	2	0.00 %	49	0.00 %	40 / 215	TC
Church & Dwight Co	0.02 %	0.02 %	13	0.00 %	78	0.00 %	72 / 215	ENV*
Cia Brasileira de Distribuicao	0.00 %	0.00 %	4	0.00 %	27	0.00 %	9 / 215	PRE
Clorox Co	0.04 %	0.02 %	53	0.01 %	113	0.01 %	103 / 215	PRE
Coca-Cola Amatil Ltd	0.11 %	0.19 %	254	0.03 %	106	0.06 %	97 / 215	PRE
Coca-Cola Bottlers Japan Co	0.01 %	0.00 %	58	0.01 %	158	0.01 %	134 / 215	AR*
Coca-Cola Co	0.11 %	0.21 %	132	0.02 %	147	0.02 %	129 / 215	PRE
Coca-Cola European Partners plc	0.00 %	0.01 %	3	0.00 %	67	0.00 %	66 / 215	ENV
Coca-Cola Femsa SAB de CV	0.00 %	0.00 %	2	0.00 %	84	0.00 %	81 / 215	ENV*
Coca-Cola HBC AG	0.00 %	0.01 %	14	0.00 %	120	0.00 %	107 / 215	CDP
Colgate-Palmolive Co	0.41 %	0.08 %	303	0.04 %	82	0.11 %	77 / 215	OTH
Colruyt SA	0.00 %	0.00 %	3	0.00 %	24	0.00 %	5 / 215	PRE
Conagra Brands, Inc	0.00 %	0.02 %	26	0.00 %	348	-0.00 %	175 / 215	ENV*
Constellation Brands Inc	0.00 %	0.04 %	2	0.00 %	82	0.00 %	78 / 215	CDP
Costa Group Holdings Ltd	0.00 %	0.03 %	19	0.00 %	250	0.00 %	155 / 215	ENV
Costco Wholesale Corp	0.08 %	0.09 %	109	0.01 %	24	0.17 %	6 / 215	PRE
Coty Inc.	0.08 %	0.01 %	47	0.01 %	54	0.03 %	55 / 215	TC
CVS Health Corporation	0.01 %	0.10 %	13	0.00 %	17	0.03 %	3 / 215	ENV*
Dabur India Ltd	0.03 %	0.00 %	15	0.00 %	78	0.01 %	73 / 215	PRE
Danone	0.09 %	0.05 %	772	0.10 %	416	-0.03 %	181 / 215	AR*
Diageo Plc	0.12 %	0.09 %	189	0.03 %	134	0.03 %	122 / 215	AR*



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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Distribuidora Internacional De Alimentacion	0.18 %	0.00 %	1,296	0.17 %	72	0.56 %	69 / 215	CDP
Dr Pepper Snapple Group	0.01 %	0.02 %	19	0.00 %	124	0.00 %	113 / 215	CDP
E-Mart Co. Ltd	0.00 %	0.00 %	3	0.00 %	43	0.00 %	32 / 215	PRE
Eastern Company	0.00 %		8	0.00 %	106	0.00 %	N / A	TC
Ebro Foods SA	0.00 %		36	0.00 %	312	-0.00 %	N / A	ENV
Edgewell Personal Care Co.	0.00 %	0.01 %	14	0.00 %	236	0.00 %	153 / 215	TC
Elders Ltd	0.06 %	0.02 %	1,194	0.16 %	184	0.10 %	142 / 215	TC
Emmi AG	0.00 %		40	0.01 %	603	-0.00 %	N / A	PRE
Empire Company Limited	0.00 %	0.00 %	24	0.00 %	52	0.02 %	49 / 215	TC
Estee Lauder Cos.	0.07 %	0.02 %	38	0.01 %	41	0.03 %	29 / 215	ENV*
Familymart UNY Holdings Co	0.00 %	0.01 %	8	0.00 %	213	0.00 %	150 / 215	AR*
Fomento Economico Mexicano S.A.B. de C.	0.06 %	0.02 %	178	0.02 %	81	0.06 %	76 / 215	ENV*
Fresh Del Monte Produce	0.03 %		2,125	0.28 %	1,454	-0.23 %	N / A	TC
General Mills Inc	0.01 %	0.04 %	27	0.00 %	294	0.00 %	163 / 215	PRE
George Weston Ltd	0.04 %	0.01 %	65	0.01 %	15	0.17 %	1 / 215	CDP
Golden Agri Resources Ltd	0.00 %	0.00 %	112	0.01 %	813	-0.01 %	212 / 215	TC
Graincorp Ltd A	0.00 %	0.07 %	76	0.01 %	226	0.00 %	152 / 215	ENV*
Heineken Holding NV	0.00 %	0.03 %	2	0.00 %	154	0.00 %	132 / 215	PRE
Heineken NV	0.05 %		125	0.02 %	135	0.02 %	N / A	ENV*
Henkel AG & Co. KGaA	0.52 %	0.04 %	507	0.07 %	69	0.23 %	67 / 215	ENV
Hershey Foods Corp	0.05 %	0.02 %	59	0.01 %	101	0.02 %	91 / 215	PRE
Hindustan Unilever Ltd	0.00 %	0.01 %	0	0.00 %	124	0.00 %	111 / 215	PRE
HKScan Oyj	0.00 %		87	0.01 %	703	-0.01 %	N / A	TC
Hormel Foods Corp	0.00 %	0.01 %	38	0.01 %	606	-0.00 %	205 / 215	PRE
ICA Gruppen AB	0.00 %	0.00 %	3	0.00 %	27	0.00 %	8 / 215	AR*
Imperial Brands Plc	0.11 %	0.06 %	261	0.03 %	83	0.09 %	80 / 215	AR*
Ingredion Inc	0.01 %	0.01 %	75	0.01 %	552	-0.00 %	199 / 215	TC
ITC Ltd	0.00 %	0.02 %	1	0.00 %	217	0.00 %	151 / 215	CDP
Japan Tobacco Inc	0.00 %	0.04 %	6	0.00 %	126	0.00 %	116 / 215	PRE
JBS SA	0.00 %	0.00 %	686	0.09 %	748	-0.05 %	208 / 215	CDP
Jean Coutu Group (PJC) Inc. (The)	0.00 %	0.00 %	2	0.00 %	48	0.00 %	36 / 215	TC
Jeronimo Martins & Filito SGPS	0.09 %	0.01 %	241	0.03 %	56	0.14 %	58 / 215	CDP
Kakiyasu Honten Co Ltd	0.00 %		89	0.01 %	793	-0.01 %	N / A	TC
Kao Corp	0.00 %	0.03 %	7	0.00 %	107	0.00 %	98 / 215	PRE
Kato Sangyo Co	0.00 %		13	0.00 %	34	0.01 %	N / A	TC
Kellogg Co	0.07 %	0.02 %	316	0.04 %	244	0.01 %	154 / 215	PRE



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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Kerry Group A	0.00 %	0.02 %	9	0.00 %	142	0.00 %	126 / 215	TC
Kesko Oyj	0.00 %		1	0.00 %	28	0.00 %	N / A	PRE
Kikkoman Corp	0.00 %	0.01 %	5	0.00 %	131	0.00 %	120 / 215	CDP
Kimberly Clark de Mexico S.A.B. de C.V.	0.02 %	0.00 %	78	0.01 %	357	-0.00 %	177 / 215	ENV*
Kimberly-Clark	0.04 %	0.06 %	152	0.02 %	290	0.00 %	161 / 215	PRE
Kirin Holdings Co Ltd	0.00 %	0.02 %	21	0.00 %	139	0.00 %	124 / 215	PRE
Koninklijke Wessanen NV	0.03 %		168	0.02 %	255	0.00 %	N / A	CDP
Kose Corp	0.00 %	0.00 %	1	0.00 %	53	0.00 %	51 / 215	TC
Kroger Co	0.03 %	0.03 %	289	0.04 %	57	0.17 %	59 / 215	CDP*
KT&G Corp.	0.00 %	0.01 %	1	0.00 %	103	0.00 %	93 / 215	PRE
L'Oreal	0.01 %	0.06 %	2	0.00 %	33	0.00 %	12 / 215	CDP*
La Comer S.A.B. de C.V.	0.00 %		4	0.00 %	48	0.00 %	N / A	TC
Lancaster Colony Corp	0.00 %		3	0.00 %	232	0.00 %	N / A	TC
Lawson Inc	0.00 %	0.00 %	0	0.00 %	17	0.00 %	4 / 215	PRE
Leroy Seafood Group ASA	0.01 %		10	0.00 %	33	0.01 %	N / A	CDP
LG Household & Health Care	0.26 %	0.01 %	218	0.03 %	56	0.13 %	57 / 215	ENV*
Lindt & Sprungli AG Br	0.01 %	0.02 %	6	0.00 %	72	0.00 %	70 / 215	PRE
Lion Corp	0.00 %	0.01 %	1	0.00 %	79	0.00 %	74 / 215	CDP
Loblaw Companies Ltd	0.03 %	0.01 %	51	0.01 %	27	0.07 %	7 / 215	CDP
Magnit PJSC	0.00 %	0.01 %	2	0.00 %	51	0.00 %	44 / 215	TC
Marico Ltd	0.08 %	0.00 %	19	0.00 %	41	0.02 %	28 / 215	TC
Marine Harvest ASA	0.00 %	0.01 %	3	0.00 %	126	0.00 %	115 / 215	AR*
Marudai Food Co	0.01 %		454	0.06 %	822	-0.04 %	N / A	TC
McCormick & Co	0.00 %	0.01 %	6	0.00 %	149	0.00 %	130 / 215	PRE
Mead Johnson Nutrition Co	0.00 %	0.02 %	15	0.00 %	530	-0.00 %	195 / 215	OTH
MEIJI Holdings Co Ltd	0.00 %	0.01 %	30	0.00 %	457	-0.00 %	187 / 215	AR*
Metcash Ltd	0.76 %	0.08 %	29,060	3.89 %	179	2.83 %	138 / 215	CDP
Metro Inc.	0.00 %	0.01 %	5	0.00 %	47	0.00 %	35 / 215	TC
Mitsubishi Shokuhin Co Ltd	0.00 %		11	0.00 %	37	0.01 %	N / A	TC
Molson Coors Brewing Co	0.00 %	0.02 %	4	0.00 %	120	0.00 %	108 / 215	CDP
Mondelez International Inc	0.01 %	0.08 %	23	0.00 %	192	0.00 %	144 / 215	CDP
Monster Beverage Corp	0.00 %	0.02 %	1	0.00 %	54	0.00 %	56 / 215	TC
Morrison (WM) Supermarkets	0.00 %	0.01 %	21	0.00 %	39	0.02 %	22 / 215	PRE
Nagatanien Holdings Co Ltd	0.00 %		24	0.00 %	228	0.00 %	N / A	TC
Natura Cosmeticos SA	0.19 %	0.00 %	133	0.02 %	31	0.15 %	11 / 215	CDP
Nestle Malaysia Bhd	0.00 %		23	0.00 %	646	-0.00 %	N / A	TC



S&P Dow Jones Indices  
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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Nestle SA	0.18 %	0.29 %	823	0.11 %	325	-0.01 %	169 / 215	ENV*
Nippon Meat Packers Inc	0.00 %	0.01 %	136	0.02 %	552	-0.01 %	198 / 215	CDP
Nisshin Seifun Group Inc	0.00 %	0.00 %	33	0.00 %	546	-0.00 %	197 / 215	ENV*
Nissin Food Products Co	0.00 %	0.00 %	8	0.00 %	182	0.00 %	140 / 215	AR*
Olam International	0.06 %		2,934	0.39 %	322	-0.03 %	N / A	ENV*
Orior AG	0.00 %		102	0.01 %	535	-0.01 %	N / A	TC
Orkla AS	0.02 %	0.01 %	64	0.01 %	169	0.01 %	136 / 215	CDP
Parmalat SpA	0.00 %		82	0.01 %	585	-0.01 %	N / A	TC
PepsiCo Inc	0.06 %	0.20 %	181	0.02 %	202	0.01 %	146 / 215	PRE
Pernod-Ricard	0.15 %	0.03 %	331	0.04 %	203	0.02 %	147 / 215	CDP
Philip Morris International	0.04 %	0.22 %	65	0.01 %	99	0.02 %	89 / 215	PRE
Pilgrims Pride Corp	0.00 %		80	0.01 %	358	-0.00 %	N / A	TC
Pinar Entegre Et ve Un Sanayi	0.00 %		14	0.00 %	703	-0.00 %	N / A	TC
Pola Orbis Holdings Inc	0.00 %	0.00 %	1	0.00 %	50	0.00 %	43 / 215	TC
Procter & Gamble	0.05 %	0.28 %	63	0.01 %	116	0.01 %	104 / 215	PRE
Rallye	0.00 %		225	0.03 %	48	0.16 %	N / A	TC
Reckitt Benckiser Group PLC	0.13 %	0.07 %	63	0.01 %	65	0.03 %	63 / 215	ENV*
Remy Cointreau SA	0.00 %	0.00 %	5	0.00 %	197	0.00 %	145 / 215	TC
Reynolds American Inc	0.01 %	0.07 %	2	0.00 %	93	0.00 %	85 / 215	CDP
Ridley Corporation Ltd	0.01 %	0.01 %	219	0.03 %	474	-0.01 %	191 / 215	TC
Rite Aid Corp	0.00 %	0.01 %	17	0.00 %	48	0.01 %	37 / 215	TC
Rock Field Co	0.00 %		44	0.01 %	431	-0.00 %	N / A	TC
Sainsbury (J)	0.01 %	0.01 %	32	0.00 %	36	0.03 %	16 / 215	CDP
Salmar ASA	0.01 %		19	0.00 %	129	0.00 %	N / A	ENV*
Saputo Inc	0.00 %	0.01 %	50	0.01 %	742	-0.00 %	207 / 215	CDP
Select Harvests Ltd	0.01 %	0.01 %	4	0.00 %	37	0.00 %	18 / 215	TC
Seven & I Holdings Co Ltd	0.01 %	0.04 %	19	0.00 %	66	0.01 %	64 / 215	CDP
Shiseido Co	0.00 %	0.01 %	2	0.00 %	38	0.00 %	20 / 215	PRE
Shoprite Hldgs Ltd	0.00 %	0.01 %	3	0.00 %	116	0.00 %	105 / 215	TC
Showa Sangyo Co	0.00 %		157	0.02 %	540	-0.01 %	N / A	TC
Shufersal Ltd.	0.01 %		30	0.00 %	48	0.02 %	N / A	TC
Smucker J.M. Co	0.00 %	0.02 %	19	0.00 %	290	0.00 %	160 / 215	CDP*
Spectrum Brands Holdings Inc	0.03 %	0.00 %	122	0.02 %	178	0.01 %	137 / 215	TC
Starzen Co	0.00 %		152	0.02 %	822	-0.01 %	N / A	TC
Strauss Group	0.00 %		35	0.00 %	364	-0.00 %	N / A	ENV*
Sudzucker AG	0.00 %		93	0.01 %	397	-0.00 %	N / A	TC





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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Sun Art Retail Group Ltd	0.00 %	0.00 %	2	0.00 %	51	0.00 %	45 / 215	TC
Sundrug Co Ltd	0.01 %	0.00 %	22	0.00 %	51	0.01 %	46 / 215	TC
Suntory Beverage & Food Ltd	0.00 %	0.01 %	5	0.00 %	73	0.00 %	71 / 215	PRE
Swedish Match AB	0.03 %	0.01 %	33	0.00 %	95	0.01 %	88 / 215	CDP
Sysco Corp	0.04 %	0.03 %	97	0.01 %	41	0.08 %	27 / 215	CDP
Tassal Group Limited	0.11 %	0.02 %	110	0.01 %	69	0.05 %	68 / 215	ENV*
Tate & Lyle	0.00 %	0.01 %	109	0.01 %	1,446	-0.01 %	215 / 215	CDP
Tesco	0.00 %	0.02 %	13	0.00 %	39	0.01 %	21 / 215	CDP*
Thai Beverage	0.00 %		1	0.00 %	109	0.00 %	N / A	ENV*
Thai Vegetable Oil PCL	0.01 %		96	0.01 %	517	-0.01 %	N / A	TC
The A2 Milk Company Limited	0.22 %	0.06 %	677	0.09 %	564	-0.04 %	201 / 215	TC
The Kraft Heinz Company	0.00 %	0.07 %	7	0.00 %	308	-0.00 %	166 / 215	TC
The WhiteWave Foods Co.	0.00 %	0.01 %	15	0.00 %	291	0.00 %	162 / 215	ENV*
Tokmanni Group	0.00 %		4	0.00 %	48	0.00 %	N / A	TC
Total Produce Plc	0.00 %		166	0.02 %	1,454	-0.02 %	N / A	TC
Toyo Suisan Kaisha	0.00 %	0.00 %	11	0.00 %	183	0.00 %	141 / 215	TC
Treasury Wine Estates	0.11 %	0.30 %	152	0.02 %	168	0.02 %	135 / 215	AR*
Tsuruha Holdings Inc	0.00 %	0.00 %	2	0.00 %	53	0.00 %	53 / 215	TC
Tyson Foods Inc	0.02 %	0.02 %	655	0.09 %	587	-0.04 %	204 / 215	PRE
Uni Charm Corp	0.21 %	0.01 %	1,787	0.24 %	559	-0.11 %	200 / 215	TC
Uni-President Enterprises	0.00 %	0.01 %	4	0.00 %	126	0.00 %	117 / 215	AR*
Unilever NV	1.13 %	0.18 %	1,621	0.22 %	100	0.44 %	90 / 215	AR
Universal Corp	0.03 %		254	0.03 %	227	0.01 %	N / A	TC
Universal Robina Corp	0.11 %	0.00 %	228	0.03 %	157	0.03 %	133 / 215	TC
Vilmorin et Cie	0.00 %		12	0.00 %	163	0.00 %	N / A	AR*
Vitasoy International Holdings Ltd.	0.09 %		457	0.06 %	475	-0.02 %	N / A	TC
Wal-Mart Stores	0.04 %	0.14 %	132	0.02 %	40	0.11 %	26 / 215	CDP
Walgreens Boots Alliance Inc	0.00 %	0.09 %	5	0.00 %	29	0.01 %	10 / 215	PRE
Walmart de Mexico SAB de CV	0.11 %	0.01 %	120	0.02 %	40	0.11 %	25 / 215	CDP
Want Want China Holdings Ltd.	0.00 %	0.00 %	2	0.00 %	342	-0.00 %	174 / 215	TC
Wesfarmers Ltd	1.37 %	1.69 %	4,754	0.64 %	79	1.82 %	75 / 215	ENV*
WH Group Ltd	0.00 %	0.01 %	112	0.02 %	767	-0.01 %	209 / 215	TC
Whole Foods Market Inc	0.00 %	0.01 %	12	0.00 %	52	0.01 %	50 / 215	PRE
Wilmar International	0.00 %	0.01 %	101	0.01 %	336	-0.00 %	173 / 215	CDP
Woolworths Ltd	0.64 %	1.13 %	2,107	0.28 %	58	1.20 %	60 / 215	PRE
Yakult Honsha Co	0.00 %	0.01 %	11	0.00 %	460	-0.00 %	188 / 215	TC





S&P Dow Jones Indices  
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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Yamazaki Baking Co	0.00 %	0.00 %	23	0.00 %	124	0.00 %	112 / 215	TC
<b>Energy</b>	<b>7.02 %</b>	<b>5.39 %</b>	<b>173,072</b>	<b>23.16 %</b>	<b>701</b>	<b>-14.70 %</b>		
AltaGas Ltd.	0.00 %	0.00 %	55	0.01 %	1,418	-0.01 %	130 / 142	AR*
Amec Foster Wheeler	0.00 %		10	0.00 %	143	0.00 %	N / A	AR*
Anadarko Petroleum Corp	0.03 %	0.04 %	159	0.02 %	552	-0.01 %	102 / 142	CDP*
Andeavor	0.01 %	0.01 %	363	0.05 %	415	-0.01 %	75 / 142	ENV*
Antero Resources Corp	0.03 %	0.00 %	49	0.01 %	239	0.00 %	46 / 142	TC
Apache Corp	0.24 %	0.02 %	2,550	0.34 %	908	-0.23 %	123 / 142	ENV*
ARC Resources Ltd.	0.00 %	0.01 %	8	0.00 %	863	-0.00 %	121 / 142	CDP
Baker Hughes, a GE company	0.01 %	0.03 %	20	0.00 %	159	0.00 %	24 / 142	ENV*
Beach Energy Limited	0.05 %	0.04 %	60	0.01 %	71	0.03 %	9 / 142	PRE
Bharat Petroleum Corp Ltd	0.00 %	0.01 %	61	0.01 %	305	-0.00 %	61 / 142	TC
Bonheur ASA	0.00 %		8	0.00 %	286	0.00 %	N / A	TC
BP	0.04 %	0.13 %	803	0.11 %	314	-0.00 %	62 / 142	CDP
Cabot Oil & Gas A	0.00 %	0.01 %	4	0.00 %	239	0.00 %	42 / 142	TC
Cairn India Ltd.	0.00 %	0.00 %	6	0.00 %	485	-0.00 %	87 / 142	CDP
Callon Petroleum Co	0.04 %		16	0.00 %	239	0.00 %	N / A	TC
Caltex Australia Ltd	0.49 %	0.25 %	9,307	1.25 %	204	0.60 %	29 / 142	CDP
Cameco Corp	0.00 %	0.01 %	8	0.00 %	205	0.00 %	30 / 142	CDP*
Canadian Natural Resources Limited	0.03 %	0.04 %	552	0.07 %	1,543	-0.06 %	132 / 142	CDP
Cenovus Energy Inc	0.00 %	0.01 %	61	0.01 %	634	-0.00 %	106 / 142	CDP
Cheniere Energy Inc	0.00 %	0.01 %	0	0.00 %	156	0.00 %	22 / 142	TC
Chesapeake Energy Corp	0.00 %		8	0.00 %	277	0.00 %	N / A	ENV*
Chevron Corp	0.02 %	0.25 %	263	0.04 %	465	-0.01 %	81 / 142	CDP
China Oilfield Services Ltd	0.00 %	0.00 %	2	0.00 %	340	-0.00 %	64 / 142	AR*
China Petroleum & Chemical Corp	0.02 %	0.03 %	304	0.04 %	130	0.05 %	17 / 142	TC
China Shenhua Energy Co Ltd	0.01 %	0.01 %	989	0.13 %	7,628	-0.13 %	142 / 142	AR*
Cimarex Energy Co	0.00 %	0.01 %	7	0.00 %	506	-0.00 %	94 / 142	PRE
CNOOC Ltd.	0.01 %	0.03 %	38	0.01 %	276	0.00 %	57 / 142	ENV*
Coal India Ltd	0.00 %	0.00 %	71	0.01 %	2,097	-0.01 %	138 / 142	TC
Concho Resources Inc	0.00 %	0.02 %	3	0.00 %	239	0.00 %	43 / 142	TC
ConocoPhillips	0.01 %	0.08 %	139	0.02 %	656	-0.01 %	109 / 142	CDP
Continental Resources Inc/OK	0.00 %	0.01 %	1	0.00 %	239	0.00 %	45 / 142	TC
Cooper Energy NL	0.03 %		68	0.01 %	323	-0.00 %	N / A	TC
Core Laboratories N.V.	0.00 %	0.01 %	1	0.00 %	69	0.00 %	8 / 142	PRE



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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Crescent Point Energy Corp	0.00 %	0.01 %	23	0.00 %	1,217	-0.00 %	128 / 142	CDP
CVR Energy Inc	0.00 %		52	0.01 %	329	-0.00 %	N / A	TC
Denbury Resources Inc	0.00 %		15	0.00 %	943	-0.00 %	N / A	ENV
Devon Energy Corp	0.00 %	0.02 %	24	0.00 %	453	-0.00 %	78 / 142	CDP
Diamond Offshore Drilling	0.00 %		12	0.00 %	273	0.00 %	N / A	TC
Diamondback Energy Inc	0.00 %	0.01 %	0	0.00 %	239	0.00 %	39 / 142	TC
Ecopetrol SA	0.01 %	0.00 %	65	0.01 %	345	-0.00 %	66 / 142	CDP
Empresas COPEC SA	0.00 %	0.01 %	20	0.00 %	342	-0.00 %	65 / 142	TC
Enbridge Inc	0.01 %	0.08 %	18	0.00 %	221	0.00 %	33 / 142	PRE
EnCana Corp	0.00 %	0.01 %	11	0.00 %	493	-0.00 %	88 / 142	PRE
ENI SpA	0.02 %	0.05 %	373	0.05 %	499	-0.02 %	91 / 142	CDP
Enso plc	0.05 %		746	0.10 %	271	0.01 %	N / A	TC
Enterprise Product Partners LP	0.03 %		72	0.01 %	173	0.01 %	N / A	TC
EOG Resources	0.00 %	0.07 %	13	0.00 %	498	-0.00 %	90 / 142	CDP
EQT Corporation	0.00 %	0.01 %	5	0.00 %	243	0.00 %	47 / 142	TC
Exxon Mobil Corp	0.06 %	0.42 %	816	0.11 %	485	-0.04 %	86 / 142	CDP
Formosa Petrochemical Corp	0.00 %	0.00 %	41	0.01 %	1,058	-0.00 %	126 / 142	PRE
Galp Energia SGPS SA	0.00 %	0.01 %	36	0.00 %	305	-0.00 %	60 / 142	CDP
Gazprom Neft PJSC	0.01 %		146	0.02 %	501	-0.01 %	N / A	AR*
Gazprom PJSC	0.04 %	0.03 %	4,120	0.55 %	1,722	-0.46 %	133 / 142	ENV*
GOLAR LNG Limited	0.05 %		53	0.01 %	941	-0.00 %	N / A	TC
Grupa Lotos SA	0.03 %	0.00 %	559	0.07 %	230	0.02 %	37 / 142	TC
Halliburton Co	0.01 %	0.05 %	23	0.00 %	204	0.00 %	28 / 142	ENV*
Hellenic Petroleum SA	0.00 %		30	0.00 %	483	-0.00 %	N / A	ENV*
Helmerich & Payne Inc	0.00 %	0.01 %	9	0.00 %	261	0.00 %	53 / 142	TC
Hess Corp	0.00 %	0.02 %	32	0.00 %	641	-0.00 %	107 / 142	CDP
Hindustan Petroleum Corp Ltd	0.00 %	0.00 %	86	0.01 %	363	-0.00 %	71 / 142	ENV*
HollyFrontier Corporation	0.01 %	0.01 %	195	0.03 %	483	-0.01 %	85 / 142	TC
Husky Energy Inc	0.00 %	0.00 %	132	0.02 %	904	-0.01 %	122 / 142	CDP
Idemitsu Kosan Co Ltd	0.00 %	0.00 %	406	0.05 %	534	-0.02 %	99 / 142	ENV*
Imperial Oil Ltd	0.00 %	0.01 %	43	0.01 %	533	-0.00 %	98 / 142	CDP
INPEX Corp	0.08 %	0.01 %	137	0.02 %	65	0.07 %	7 / 142	CDP*
Inter Pipeline Ltd.	0.00 %	0.01 %	2	0.00 %	159	0.00 %	25 / 142	TC
Jerusalem Oil Exploration	0.00 %		3	0.00 %	183	0.00 %	N / A	TC
JXTG Holdings Inc	0.00 %	0.02 %	259	0.03 %	281	0.00 %	58 / 142	ENV*
Keyera Corp.	0.00 %	0.01 %	14	0.00 %	518	-0.00 %	96 / 142	PRE



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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mnn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Kinder Morgan Inc	0.00 %	0.05 %	5	0.00 %	212	0.00 %	31 / 142	TC
Kunlun Energy Co. Ltd.	0.00 %	0.00 %	6	0.00 %	219	0.00 %	32 / 142	TC
Kurimoto	0.00 %		164	0.02 %	657	-0.01 %	N / A	TC
Lukoil PJSC	0.01 %	0.03 %	134	0.02 %	253	0.00 %	52 / 142	AR*
Lundin Petroleum A	0.00 %	0.00 %	1	0.00 %	150	0.00 %	21 / 142	CDP
Marathon Oil Corp	0.00 %	0.02 %	33	0.00 %	633	-0.00 %	105 / 142	ENV*
Marathon Petroleum Corp.	0.01 %	0.03 %	342	0.05 %	541	-0.02 %	100 / 142	PRE
McDermott Intl Inc	0.01 %		19	0.00 %	20	0.04 %	N / A	TC
MOL HUNGARIAN OIL AND GAS NY	0.03 %	0.00 %	1,055	0.14 %	479	-0.05 %	83 / 142	AR*
Murphy Oil Corp	0.00 %	0.01 %	40	0.01 %	805	-0.00 %	117 / 142	ENV*
Nabors Industries Ltd	0.00 %		6	0.00 %	245	0.00 %	N / A	TC
National Oilwell Varco Inc	0.02 %	0.02 %	103	0.01 %	125	0.02 %	14 / 142	PRE
Neste Oyj	0.00 %	0.01 %	61	0.01 %	304	-0.00 %	59 / 142	AR
Newfield Exploration Co	0.00 %	0.01 %	4	0.00 %	335	-0.00 %	63 / 142	PRE
Noble Corp plc	0.00 %		87	0.01 %	309	-0.00 %	N / A	AR*
Noble Energy Inc	0.11 %	0.02 %	443	0.06 %	543	-0.03 %	101 / 142	CDP
Novatek PJSC	0.00 %	0.01 %	4	0.00 %	455	-0.00 %	79 / 142	CDP
Obsidian Energy Ltd.	0.00 %		15	0.00 %	538	-0.00 %	N / A	PRE
Occidental Petroleum	0.01 %	0.06 %	50	0.01 %	854	-0.00 %	120 / 142	CDP
Oil & Natural Gas Corp Ltd	0.01 %	0.00 %	77	0.01 %	574	-0.00 %	103 / 142	ENV*
Oil Search Ltd	0.03 %	0.28 %	81	0.01 %	465	-0.00 %	82 / 142	CDP
OMV AG	0.04 %	0.01 %	1,318	0.18 %	479	-0.07 %	84 / 142	CDP
ONEOK Inc	0.00 %	0.01 %	14	0.00 %	275	0.00 %	56 / 142	ENV*
Origin Energy Ltd	1.83 %	0.41 %	105,613	14.13 %	1,759	-12.01 %	134 / 142	ENV*
Parex Resources Inc.	0.05 %		12	0.00 %	24	0.02 %	N / A	ENV*
Parkland Fuel Corporation	0.03 %		103	0.01 %	42	0.08 %	N / A	TC
Parsley Energy Inc	0.00 %	0.01 %	0	0.00 %	239	0.00 %	40 / 142	TC
Pembina Pipeline Corporation	0.00 %	0.02 %	4	0.00 %	156	0.00 %	23 / 142	TC
Petrobras SA	0.01 %	0.04 %	522	0.07 %	646	-0.04 %	108 / 142	CDP
PetroChina Co Ltd	0.05 %	0.02 %	593	0.08 %	249	0.02 %	48 / 142	ENV*
Petrofac	0.00 %	0.00 %	7	0.00 %	78	0.00 %	10 / 142	CDP*
Peyto Exploration & Development Corp.	0.00 %	0.00 %	16	0.00 %	1,795	-0.00 %	135 / 142	ENV
Phillips 66	0.01 %	0.05 %	194	0.03 %	226	0.01 %	36 / 142	PRE
Pioneer Natural Resources	0.00 %	0.04 %	2	0.00 %	226	0.00 %	35 / 142	ENV*
Plains GP Holdings LP	0.00 %	0.01 %	1	0.00 %	40	0.00 %	4 / 142	TC
Polski Koncern Naftowy SA	0.00 %	0.01 %	40	0.01 %	224	0.00 %	34 / 142	PRE



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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Polskie Gornictwo Naftowe	0.01 %	0.00 %	166	0.02 %	705	-0.01 %	113 / 142	AR*
PrairieSky Royalty Ltd.	0.00 %	0.01 %	0	0.00 %	38	0.00 %	3 / 142	TC
PTT Exploration & Production PCL	0.00 %	0.00 %	22	0.00 %	679	-0.00 %	112 / 142	CDP
PTT PCL	0.03 %	0.01 %	850	0.11 %	456	-0.04 %	80 / 142	CDP
Range Resources Corp	0.00 %	0.01 %	1	0.00 %	251	0.00 %	49 / 142	ENV*
Reliance Industries Ltd	0.00 %	0.03 %	16	0.00 %	449	-0.00 %	77 / 142	ENV*
Repsol SA	0.01 %	0.02 %	250	0.03 %	496	-0.01 %	89 / 142	CDP
Rosneft PJSC	0.01 %	0.01 %	209	0.03 %	758	-0.02 %	115 / 142	ENV*
Royal Dutch Shell PLC	0.05 %	0.27 %	765	0.10 %	358	-0.02 %	70 / 142	CDP
RPC Inc	0.03 %		40	0.01 %	119	0.01 %	N / A	TC
S-Oil Corp	0.00 %	0.00 %	13	0.00 %	345	-0.00 %	68 / 142	PRE
Saipem SpA Ord	0.00 %	0.00 %	13	0.00 %	195	0.00 %	27 / 142	AR*
Santos Ltd	0.35 %	0.23 %	6,856	0.92 %	1,332	-0.71 %	129 / 142	CDP
Sasol Ltd	0.00 %	0.02 %	219	0.03 %	4,879	-0.03 %	141 / 142	PRE
Schlumberger Ltd	0.06 %	0.13 %	91	0.01 %	138	0.01 %	18 / 142	ENV*
Seadrill Ltd	0.00 %		90	0.01 %	271	0.00 %	N / A	TC
Seven Generations Energy Ltd.	0.00 %	0.01 %	1	0.00 %	239	0.00 %	44 / 142	TC
Showa Shell Sekiyu KK	0.00 %	0.00 %	190	0.03 %	604	-0.01 %	104 / 142	PRE
Sinanen Co	0.00 %		85	0.01 %	172	0.01 %	N / A	TC
SK Innovation Co Ltd	0.00 %	0.01 %	28	0.00 %	355	-0.00 %	69 / 142	ENV*
Southwestern Energy Co	0.00 %	0.00 %	8	0.00 %	831	-0.00 %	119 / 142	ENV*
Statoil ASA	0.01 %	0.02 %	173	0.02 %	345	-0.00 %	67 / 142	CDP
Subsea 7 SA	0.06 %		456	0.06 %	221	0.02 %	N / A	CDP
Suncor Energy Inc	0.04 %	0.06 %	451	0.06 %	815	-0.04 %	118 / 142	CDP
Sundance Energy Australia Ltd	0.02 %		175	0.02 %	239	0.01 %	N / A	TC
Superior Energy Services Inc	0.00 %		2	0.00 %	103	0.00 %	N / A	TC
Surgutneftegas OJSC	0.00 %	0.01 %	6	0.00 %	109	0.00 %	13 / 142	PRE
Tatneft PJSC	0.00 %	0.01 %	11	0.00 %	262	0.00 %	54 / 142	TC
TechnipFMC Ltd	0.05 %	0.02 %	79	0.01 %	107	0.02 %	12 / 142	PRE
Tenaris SA	0.04 %	0.01 %	396	0.05 %	797	-0.03 %	116 / 142	ENV*
Thai Oil PCL	0.00 %	0.00 %	18	0.00 %	372	-0.00 %	73 / 142	ENV*
The Williams Companies Inc	0.00 %	0.03 %	24	0.00 %	1,043	-0.00 %	125 / 142	PRE
TonenGeneral Sekiyu KK	0.00 %		171	0.02 %	269	0.00 %	N / A	PRE
Total S.A.	0.02 %	0.14 %	260	0.03 %	272	0.00 %	55 / 142	CDP
Tourmaline Oil Corp	0.00 %	0.01 %	2	0.00 %	239	0.00 %	41 / 142	TC
TransCanada Corp	0.00 %	0.05 %	42	0.01 %	1,144	-0.00 %	127 / 142	CDP



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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mnn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Transocean Ltd	0.06 %		916	0.12 %	272	0.01 %	N / A	PRE
Tullow Oil	0.04 %		346	0.05 %	365	-0.01 %	N / A	CDP*
Tupras-Turkiye Petrol Rafine	0.00 %	0.00 %	37	0.00 %	443	-0.00 %	76 / 142	AR*
Ultrapar Participacoes S.A.	0.00 %	0.01 %	3	0.00 %	42	0.00 %	5 / 142	CDP
Valero Energy Corp	0.01 %	0.04 %	583	0.08 %	364	-0.01 %	72 / 142	ENV*
Veresen Inc.	0.00 %	0.00 %	3	0.00 %	733	-0.00 %	114 / 142	AR*
Vermilion Energy Inc.	0.00 %	0.01 %	5	0.00 %	505	-0.00 %	92 / 142	CDP
Vopak NV	0.00 %	0.00 %	6	0.00 %	232	0.00 %	38 / 142	AR*
Weatherford Intl Ltd	0.00 %	0.01 %	8	0.00 %	139	0.00 %	19 / 142	CDP
Western Refining	0.00 %		87	0.01 %	307	-0.00 %	N / A	TC
Whitehaven Coal Ltd	0.05 %	0.07 %	340	0.05 %	662	-0.02 %	111 / 142	ENV*
Whiting Petroleum	0.00 %		2	0.00 %	239	0.00 %	N / A	TC
WOOD GROUP (JOHN) PLC	0.00 %		2	0.00 %	39	0.00 %	N / A	AR*
Woodside Petroleum Ltd	1.62 %	0.77 %	21,527	2.88 %	1,488	-2.31 %	131 / 142	CDP
World Fuel Services Corp	0.00 %		5	0.00 %	37	0.00 %	N / A	TC
WorleyParsons Ltd	0.35 %	0.07 %	807	0.11 %	19	1.65 %	1 / 142	CDP
Yanzhou Coal Mining Co Ltd	0.00 %	0.00 %	48	0.01 %	2,396	-0.01 %	140 / 142	AR*
Z Energy Limited	0.25 %		415	0.06 %	38	0.38 %	N / A	TC
<b>Financials</b>	<b>21.36 %</b>	<b>28.57 %</b>	<b>5,400</b>	<b>0.72 %</b>	<b>17</b>	<b>13.61 %</b>		
3I Group	0.00 %	0.01 %	0	0.00 %	4	0.00 %	102 / 442	ENV*
Aberdeen Asset Mgmt	0.00 %	0.00 %	0	0.00 %	4	0.00 %	97 / 442	AR*
ABN AMRO Group NV	0.00 %	0.01 %	0	0.00 %	5	0.00 %	179 / 442	ENV*
Abu Dhabi Commercial Bank	0.00 %	0.00 %	0	0.00 %	8	0.00 %	265 / 442	PRE
Acom Co	0.00 %	0.00 %	0	0.00 %	11	0.00 %	334 / 442	TC
Admiral Group	0.00 %	0.01 %	0	0.00 %	5	0.00 %	199 / 442	ENV*
Aegon NV	0.00 %	0.01 %	2	0.00 %	3	0.02 %	31 / 442	ENV*
AEON Financial Service Co Ltd	0.00 %	0.00 %	0	0.00 %	11	0.00 %	336 / 442	TC
Affiliated Managers Grp	0.00 %	0.01 %	0	0.00 %	9	0.00 %	277 / 442	TC
AFLAC Inc	0.01 %	0.04 %	1	0.00 %	5	0.01 %	161 / 442	PRE
AGEAS	0.00 %	0.01 %	0	0.00 %	2	0.01 %	6 / 442	TC
AGNC Investment Corp	0.00 %	0.01 %	1	0.00 %	58	0.00 %	422 / 442	TC
Agricultural Bank of China Ltd	0.02 %	0.01 %	2	0.00 %	5	0.02 %	164 / 442	TC
AIA Group Ltd	0.05 %	0.09 %	2	0.00 %	3	0.02 %	39 / 442	ENV*
Akbank TAS	0.00 %	0.01 %	0	0.00 %	11	0.00 %	330 / 442	PRE
Alleghany Corp (NY)	0.00 %	0.01 %	0	0.00 %	3	0.00 %	85 / 442	TC



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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Allianz SE	0.01 %	0.10 %	2	0.00 %	3	0.03 %	81 / 442	ENV*
Allied World Assurance	0.00 %		0	0.00 %	3	0.00 %	N / A	TC
Allstate Corp	0.01 %	0.04 %	2	0.00 %	8	0.01 %	254 / 442	PRE
Ally Financial Inc	0.00 %	0.01 %	1	0.00 %	8	0.00 %	266 / 442	TC
American Express Co	0.08 %	0.08 %	10	0.00 %	7	0.05 %	252 / 442	PRE
American Financial Group	0.00 %		0	0.00 %	3	0.00 %	N / A	TC
American Intl Group Inc	0.09 %	0.08 %	24	0.00 %	8	0.12 %	257 / 442	PRE
Ameriprise Financial Inc	0.01 %	0.03 %	1	0.00 %	7	0.00 %	245 / 442	TC
AMP Ltd	0.26 %	0.51 %	41	0.01 %	4	0.36 %	159 / 442	PRE
Annaly Capital Management Inc.	0.00 %	0.01 %	0	0.00 %	3	0.00 %	50 / 442	TC
ANZ Banking Group	1.95 %	3.09 %	268	0.04 %	14	0.74 %	373 / 442	CDP
Aon plc	0.00 %	0.04 %	1	0.00 %	18	0.00 %	393 / 442	PRE
Aozora Bank Ltd	0.00 %	0.01 %	0	0.00 %	5	0.00 %	200 / 442	TC
Arch Capital Group Ltd	0.00 %	0.01 %	0	0.00 %	3	0.00 %	55 / 442	TC
Aspen Insurance Holdings Ltd	0.05 %		6	0.00 %	3	0.07 %	N / A	TC
Assicurazioni Generali SpA	0.01 %	0.02 %	2	0.00 %	2	0.04 %	8 / 442	ENV
Assurant Inc	0.00 %	0.01 %	1	0.00 %	3	0.01 %	46 / 442	PRE
ASX Limited	0.33 %	0.32 %	19	0.00 %	17	0.04 %	386 / 442	CDP
Australian Finance Group Ltd	0.03 %		23	0.00 %	10	0.09 %	N / A	TC
Aviva	0.01 %	0.03 %	1	0.00 %	2	0.01 %	23 / 442	CDP
AXA	0.01 %	0.06 %	2	0.00 %	3	0.03 %	28 / 442	CDP
Axis Capital Hldgs Ltd	0.00 %	0.01 %	0	0.00 %	3	0.00 %	65 / 442	TC
Baloise Holding AG	0.00 %	0.01 %	0	0.00 %	3	0.01 %	29 / 442	AR*
Banco Bilbao Vizcaya Argentaria SA	0.01 %	0.06 %	3	0.00 %	12	0.01 %	357 / 442	CDP
Banco Bradesco	0.14 %	0.05 %	9	0.00 %	4	0.09 %	145 / 442	CDP
Banco de Bogota SA	0.00 %		0	0.00 %	4	0.00 %	N / A	TC
Banco de Chile	0.00 %	0.00 %	0	0.00 %	4	0.00 %	132 / 442	TC
Banco de Sabadell SA	0.00 %	0.01 %	0	0.00 %	2	0.00 %	17 / 442	ENV*
Banco do Brasil	0.01 %	0.01 %	1	0.00 %	5	0.01 %	196 / 442	CDP
Banco Popular Espanol SA	0.00 %	0.00 %	0	0.00 %	3	0.00 %	32 / 442	CDP
Banco Santander Brazil	0.00 %	0.00 %	0	0.00 %	5	0.00 %	201 / 442	CDP
Banco Santander Chile	0.06 %	0.01 %	50	0.01 %	82	0.02 %	427 / 442	PRE
Banco Santander SA	0.02 %	0.11 %	2	0.00 %	7	0.01 %	241 / 442	CDP
BanColombia SA	0.00 %	0.01 %	0	0.00 %	6	0.00 %	229 / 442	CDP
Bangkok Bank Co.	0.00 %	0.00 %	0	0.00 %	6	0.00 %	220 / 442	CDP
Bank Central Asia Tbk PT	0.21 %	0.02 %	5	0.00 %	6	0.03 %	222 / 442	TC





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## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Bank Hapoalim BM Br	0.03 %	0.01 %	2	0.00 %	4	0.02 %	133 / 442	TC
Bank Leumi Le-Israel BM	0.02 %	0.01 %	3	0.00 %	9	0.01 %	268 / 442	PRE
Bank Mandiri Tbk PT	0.00 %	0.01 %	0	0.00 %	5	0.00 %	168 / 442	TC
Bank Negara Indonesia Persero Tbk PT	0.00 %	0.00 %	0	0.00 %	7	0.00 %	249 / 442	TC
Bank of America Corp	0.02 %	0.29 %	4	0.00 %	14	0.01 %	368 / 442	CDP
Bank of China Ltd	0.02 %	0.05 %	2	0.00 %	5	0.01 %	172 / 442	TC
Bank of Communications Co Ltd	0.01 %	0.01 %	1	0.00 %	5	0.01 %	170 / 442	TC
Bank of East Asia	0.00 %	0.01 %	0	0.00 %	5	0.00 %	192 / 442	TC
Bank of Ireland Group	0.00 %	0.01 %	0	0.00 %	4	0.00 %	100 / 442	TC
Bank of Kyoto	0.00 %	0.00 %	0	0.00 %	6	0.00 %	219 / 442	TC
Bank of Montreal	0.04 %	0.06 %	4	0.00 %	7	0.02 %	250 / 442	CDP
Bank of Nova Scotia Halifax	0.01 %	0.09 %	1	0.00 %	8	0.00 %	260 / 442	ENV*
Bank of Queensland Ltd	0.03 %	0.16 %	1	0.00 %	4	0.01 %	112 / 442	TC
Bank of the Philippine Islands	0.10 %	0.00 %	14	0.00 %	22	0.02 %	405 / 442	ENV*
Bank Pekao SA	0.00 %	0.01 %	0	0.00 %	4	0.00 %	117 / 442	TC
Bank Rakyat Indonesia Persero Tbk PT	0.07 %	0.01 %	3	0.00 %	4	0.02 %	125 / 442	TC
Bankia SA	0.00 %	0.01 %	0	0.00 %	3	0.00 %	35 / 442	CDP
Bankinter SA	0.01 %	0.01 %	0	0.00 %	5	0.00 %	204 / 442	CDP
Banque Nationale de Belgique	0.00 %		0	0.00 %	4	0.00 %	N / A	TC
Barclays	0.09 %	0.06 %	44	0.01 %	16	0.11 %	378 / 442	CDP
Barclays Africa Group Ltd	0.00 %	0.01 %	1	0.00 %	27	0.00 %	413 / 442	CDP
BB&T Corp	0.01 %	0.04 %	0	0.00 %	6	0.00 %	234 / 442	TC
Bendigo and Adelaide Bank Limited	0.04 %	0.19 %	8	0.00 %	20	0.02 %	401 / 442	PRE
Berkshire Hathaway	0.24 %	0.25 %	1,558	0.21 %	319	-0.01 %	437 / 442	TC
Berner Kantonalbank - Reg	0.01 %		0	0.00 %	4	0.00 %	N / A	TC
BlackRock Inc	0.01 %	0.06 %	0	0.00 %	5	0.00 %	180 / 442	PRE
Blackstone Group LP The	0.02 %		3	0.00 %	10	0.01 %	N / A	TC
BM&F Bovespa S.A.	0.00 %	0.02 %	0	0.00 %	8	0.00 %	255 / 442	ENV*
BNP Paribas	0.01 %	0.09 %	3	0.00 %	6	0.02 %	230 / 442	PRE
BOC Hong Kong (Holdings) Ltd.	0.01 %	0.02 %	0	0.00 %	9	0.00 %	292 / 442	ENV*
BT Investment Management Ltd	0.01 %	0.05 %	0	0.00 %	10	0.00 %	298 / 442	TC
CaixaBank	0.01 %	0.02 %	0	0.00 %	4	0.00 %	141 / 442	CDP
Canadian Imperial Bank of Commerce	0.04 %	0.04 %	3	0.00 %	7	0.02 %	247 / 442	OTH
Capital One Financial	0.01 %	0.05 %	1	0.00 %	10	0.01 %	304 / 442	CDP*
Cathay Financial Holding	0.00 %	0.02 %	0	0.00 %	2	0.00 %	20 / 442	ENV*
Challenger Limited	0.43 %	0.23 %	22	0.00 %	4	0.20 %	158 / 442	TC



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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mnn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Chiba Bank	0.00 %	0.01 %	0	0.00 %	5	0.00 %	177 / 442	TC
Chimera Investment Corporation	0.06 %		24	0.00 %	58	0.01 %	N / A	TC
China Cinda Asset Management Co Ltd	0.00 %	0.00 %	0	0.00 %	9	0.00 %	274 / 442	TC
China CITIC Bank Corp Ltd	0.00 %	0.01 %	0	0.00 %	5	0.00 %	162 / 442	TC
China Construction Bank Corp	0.03 %	0.08 %	2	0.00 %	5	0.02 %	181 / 442	PRE
China Life Insurance Co Ltd	0.00 %	0.03 %	0	0.00 %	3	0.00 %	53 / 442	TC
China Merchants Bank Co Ltd	0.01 %	0.01 %	0	0.00 %	4	0.00 %	110 / 442	TC
China Minsheng Banking Corp Ltd	0.00 %	0.01 %	0	0.00 %	4	0.00 %	109 / 442	TC
China Pacific Insurance (Group) Co Ltd	0.00 %	0.01 %	0	0.00 %	3	0.00 %	54 / 442	TC
China Taiping Insurance Holdings Co. Ltd.	0.00 %	0.00 %	0	0.00 %	3	0.00 %	64 / 442	TC
Chongqing Rural Commercial Bank	0.00 %	0.00 %	0	0.00 %	6	0.00 %	221 / 442	TC
Chubb Limited	0.01 %	0.08 %	0	0.00 %	4	0.00 %	103 / 442	AR*
Chugoku Bank	0.00 %	0.00 %	0	0.00 %	5	0.00 %	194 / 442	TC
CI Financial Corp	0.00 %	0.01 %	0	0.00 %	3	0.00 %	49 / 442	TC
CIMB Group Holdings Bhd	0.00 %	0.00 %	0	0.00 %	6	0.00 %	232 / 442	TC
Cincinnati Financial Corp	0.00 %	0.01 %	0	0.00 %	6	0.00 %	226 / 442	CDP
CIT Group Inc	0.00 %	0.01 %	0	0.00 %	4	0.00 %	143 / 442	TC
CITIC Securities Co Ltd	0.00 %	0.01 %	0	0.00 %	8	0.00 %	262 / 442	TC
Citigroup Inc	0.08 %	0.21 %	16	0.00 %	11	0.06 %	346 / 442	ENV*
Citizens Financial Group Inc	0.01 %	0.02 %	0	0.00 %	4	0.00 %	129 / 442	TC
CME Group Inc	0.00 %	0.05 %	0	0.00 %	9	0.00 %	282 / 442	TC
CNA Financial Corp (IL)	0.00 %		0	0.00 %	3	0.00 %	N / A	TC
CNO Financial Group Inc	0.00 %		0	0.00 %	3	0.00 %	N / A	TC
CNP Assurances	0.01 %	0.00 %	1	0.00 %	1	0.02 %	1 / 442	CDP
Columbia Banking System Inc	0.07 %		2	0.00 %	4	0.02 %	N / A	TC
Comerica Inc (MI)	0.01 %	0.01 %	1	0.00 %	21	0.00 %	404 / 442	CDP
Commercial Bank of Qatar	0.00 %	0.00 %	0	0.00 %	4	0.00 %	122 / 442	TC
Commerzbank AG	0.00 %	0.01 %	2	0.00 %	10	0.01 %	314 / 442	OTH*
Commonwealth Bank Australia	2.89 %	4.90 %	120	0.02 %	7	0.72 %	239 / 442	ENV*
Commscope Holding Co Inc	0.02 %		12	0.00 %	35	0.01 %	N / A	TC
Credicorp Limited	0.00 %	0.01 %	0	0.00 %	6	0.00 %	210 / 442	CDP
Credit Agricole SA	0.01 %	0.02 %	2	0.00 %	3	0.03 %	36 / 442	CDP
Credit Corp Group Limited	0.07 %	0.03 %	13	0.00 %	21	0.02 %	403 / 442	TC
Credit Saison Co	0.00 %	0.00 %	1	0.00 %	16	0.00 %	384 / 442	TC
Credit Suisse Group AG	0.01 %	0.04 %	2	0.00 %	8	0.01 %	259 / 442	ENV*
CTBC Financial Holding Co Ltd	0.00 %	0.01 %	0	0.00 %	7	0.00 %	244 / 442	ENV*





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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
CYBG PLC	0.27 %	0.10 %	40	0.01 %	18	0.09 %	390 / 442	PRE
Dai-ichi Life Holdings Inc	0.00 %	0.02 %	1	0.00 %	3	0.02 %	45 / 442	CDP
Daiwa Securities Group Inc	0.00 %	0.01 %	0	0.00 %	9	0.00 %	270 / 442	ENV
Danske Bank A/S	0.01 %	0.03 %	0	0.00 %	3	0.00 %	44 / 442	CDP
DBS Group Holdings	0.01 %	0.03 %	1	0.00 %	7	0.00 %	246 / 442	TC
Delta Lloyd	0.00 %		0	0.00 %	2	0.00 %	N / A	CDP
Deutsche Bank AG	0.01 %	0.04 %	4	0.00 %	12	0.02 %	351 / 442	ENV*
Deutsche Boerse AG	0.03 %	0.02 %	1	0.00 %	6	0.01 %	215 / 442	PRE
Direct Line Insurance Group	0.00 %	0.01 %	0	0.00 %	4	0.00 %	118 / 442	AR*
Discover Financial Services	0.01 %	0.03 %	1	0.00 %	10	0.00 %	311 / 442	TC
DNB ASA	0.00 %	0.02 %	0	0.00 %	4	0.00 %	87 / 442	ENV*
Dongbu Insurance	0.04 %	0.00 %	14	0.00 %	3	0.21 %	34 / 442	CDP
E*TRADE Financial Corp	0.00 %	0.01 %	0	0.00 %	8	0.00 %	261 / 442	TC
Eaton Vance Corp	0.00 %	0.01 %	0	0.00 %	9	0.00 %	295 / 442	TC
Eclix Group Limited	0.09 %	0.03 %	16	0.00 %	11	0.06 %	328 / 442	TC
Electrafina AFV I	0.00 %	0.01 %	15	0.00 %	150	0.00 %	432 / 442	TC
Element Fleet Management Corp.	0.00 %	0.00 %	0	0.00 %	10	0.00 %	308 / 442	TC
Erste Group Bank AG	0.03 %	0.01 %	7	0.00 %	12	0.02 %	360 / 442	ENV*
Essent Group Ltd	0.07 %		1	0.00 %	4	0.01 %	N / A	TC
Eurazeo	0.02 %	0.00 %	12	0.00 %	32	0.01 %	415 / 442	TC
Everest Re Group Ltd	0.01 %	0.01 %	0	0.00 %	3	0.00 %	58 / 442	TC
EXOR NV	0.01 %	0.01 %	115	0.02 %	33	0.13 %	416 / 442	TC
Fairfax Financial Holdings Limited	0.00 %	0.01 %	0	0.00 %	3	0.00 %	52 / 442	TC
Fidelity National Financial Inc	0.09 %	0.01 %	55	0.01 %	19	0.11 %	396 / 442	TC
Fifth Third Bancorp (OH)	0.01 %	0.02 %	1	0.00 %	14	0.00 %	374 / 442	CDP
First Financial Holding Co Ltd	0.00 %	0.01 %	0	0.00 %	14	0.00 %	366 / 442	ENV*
First Pacific Co. Ltd.	0.00 %	0.00 %	17	0.00 %	166	0.00 %	434 / 442	TC
First Republic Bank	0.00 %	0.02 %	0	0.00 %	5	0.00 %	183 / 442	TC
FIRSTSTRAND LIMITED	0.00 %	0.01 %	0	0.00 %	39	0.00 %	419 / 442	AR*
FlexiGroup Limited	0.13 %	0.02 %	20	0.00 %	10	0.08 %	318 / 442	TC
Franklin Resources Inc	0.05 %	0.02 %	5	0.00 %	7	0.03 %	237 / 442	CDP
Fubon Financial Holding	0.00 %	0.01 %	0	0.00 %	2	0.00 %	19 / 442	PRE
Fukuoka Financial Group	0.00 %	0.00 %	0	0.00 %	10	0.00 %	320 / 442	TC
Gallagher Arthur J. & Co	0.00 %	0.01 %	0	0.00 %	8	0.00 %	264 / 442	TC
Genworth Mortgage Insurance Australia	0.03 %	0.02 %	1	0.00 %	3	0.01 %	63 / 442	TC
GF Securities Co Ltd	0.00 %	0.00 %	0	0.00 %	9	0.00 %	278 / 442	TC



S&P Dow Jones Indices  
ESG Analysis

# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Gjensidige Forsikring ASA	0.00 %	0.00 %	0	0.00 %	2	0.00 %	12 / 442	CDP
Goldman Sachs Group Inc	0.07 %	0.10 %	12	0.00 %	12	0.04 %	359 / 442	CDP
Great-West Lifeco Inc	0.00 %	0.01 %	1	0.00 %	3	0.01 %	66 / 442	PRE
Green Dot Corp	0.05 %		3	0.00 %	4	0.03 %	N / A	TC
Grupo Aval Acciones y Valores	0.00 %	0.00 %	0	0.00 %	4	0.00 %	131 / 442	TC
Grupo Financiero Banorte	0.02 %	0.02 %	2	0.00 %	13	0.01 %	364 / 442	CDP
Grupo Financiero Inbursa	0.00 %	0.00 %	0	0.00 %	4	0.00 %	127 / 442	TC
Grupo Financiero Santander SAB de CV	0.00 %	0.00 %	0	0.00 %	4	0.00 %	130 / 442	TC
Hachijuni Bank	0.00 %	0.00 %	0	0.00 %	10	0.00 %	319 / 442	CDP
HACI OMER SABANCI HOLDING	0.00 %	0.00 %	22	0.00 %	294	0.00 %	436 / 442	TC
Haitong Securities Co. Ltd.	0.00 %	0.01 %	0	0.00 %	9	0.00 %	285 / 442	TC
Hana Financial Group Inc	0.03 %	0.01 %	4	0.00 %	5	0.03 %	197 / 442	ENV*
Hang Seng Bank Ltd.	0.00 %	0.02 %	0	0.00 %	6	0.00 %	216 / 442	PRE
Hannover Ruck SE	0.00 %	0.01 %	0	0.00 %	2	0.01 %	10 / 442	CDP*
Hanwha Life Insurance Co Ltd	0.00 %	0.00 %	0	0.00 %	3	0.00 %	62 / 442	TC
Hargreaves Lansdown Plc	0.16 %	0.01 %	2	0.00 %	4	0.02 %	98 / 442	ENV*
Hartford Finl Services Group	0.00 %	0.02 %	1	0.00 %	3	0.01 %	83 / 442	PRE
HDFC Bank Ltd	0.18 %		36	0.00 %	62	0.02 %	N / A	CDP
Helvetia Holding AG	0.00 %		0	0.00 %	2	0.00 %	N / A	PRE
HFA Holdings	0.06 %	0.01 %	2	0.00 %	3	0.02 %	67 / 442	TC
Hiroshima Bank	0.00 %	0.00 %	0	0.00 %	4	0.00 %	150 / 442	TC
Hong Kong Exchanges and Clearing Ltd.	0.00 %	0.04 %	0	0.00 %	11	0.00 %	344 / 442	ENV
Housing Development Finance Corp	0.18 %	0.04 %	7	0.00 %	8	0.03 %	263 / 442	TC
HSBC Holdings Plc	0.02 %	0.20 %	3	0.00 %	9	0.01 %	289 / 442	AR*
Huntington Bancshares (OH)	0.00 %	0.02 %	1	0.00 %	20	0.00 %	402 / 442	CDP
ICICI Bank Ltd	0.00 %	0.01 %	0	0.00 %	4	0.00 %	156 / 442	TC
IGM Financial Inc	0.00 %	0.00 %	0	0.00 %	3	0.00 %	30 / 442	PRE
Industrial Alliance Insurance	0.00 %	0.01 %	0	0.00 %	2	0.00 %	4 / 442	CDP
Industrial and Commercial Bank of China Ltd	0.03 %	0.06 %	3	0.00 %	6	0.02 %	209 / 442	TC
Industrial Bank of Korea	0.00 %	0.00 %	1	0.00 %	12	0.00 %	358 / 442	PRE
Industrivarden AB	0.00 %	0.00 %	0	0.00 %	5	0.00 %	167 / 442	CDP
ING Groep NV	0.01 %	0.07 %	1	0.00 %	4	0.00 %	144 / 442	AR
Insurance Australia Group Ltd	0.11 %	0.47 %	23	0.00 %	6	0.15 %	218 / 442	CDP
Intact Financial Corporation	0.00 %	0.01 %	0	0.00 %	3	0.00 %	43 / 442	CDP*
Intercontinental Exchange Inc	0.04 %	0.04 %	2	0.00 %	9	0.01 %	281 / 442	TC
Intesa SanPaolo	0.01 %	0.05 %	1	0.00 %	4	0.01 %	105 / 442	ENV*



S&P Dow Jones Indices  
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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
INTL FCStone Inc.	0.00 %		10	0.00 %	10	0.04 %	N / A	TC
Invesco Ltd	0.00 %	0.02 %	0	0.00 %	6	0.00 %	231 / 442	PRE
Investec PLC.	0.00 %	0.01 %	0	0.00 %	18	0.00 %	392 / 442	CDP
Investor AB	0.00 %	0.02 %	0	0.00 %	53	0.00 %	421 / 442	TC
Ioof Hldgs Ltd	0.01 %	0.07 %	1	0.00 %	6	0.00 %	228 / 442	PRE
Itau Unibanco Holding SA	0.11 %	0.05 %	10	0.00 %	6	0.07 %	206 / 442	OTH
Itausa Investimentos Itau S.A	0.00 %	0.01 %	3	0.00 %	116	0.00 %	431 / 442	CDP
Japan Exchange Group Inc	0.00 %	0.01 %	0	0.00 %	10	0.00 %	300 / 442	TC
Japan Post Bank co	0.00 %	0.01 %	0	0.00 %	4	0.00 %	149 / 442	TC
Japan Post Holdings co	0.00 %	0.01 %	3	0.00 %	26	0.00 %	411 / 442	TC
JP Morgan Chase & Co	0.06 %	0.39 %	7	0.00 %	10	0.03 %	301 / 442	ENV*
Julius Baer Group	0.03 %	0.01 %	1	0.00 %	4	0.01 %	101 / 442	ENV*
Kasikornbank	0.24 %	0.01 %	61	0.01 %	13	0.18 %	365 / 442	ENV*
KB Financial Group Inc.	0.16 %	0.02 %	48	0.01 %	18	0.10 %	391 / 442	CDP
KBC Group NV	0.01 %	0.02 %	1	0.00 %	7	0.00 %	242 / 442	CDP*
KeyCorp	0.01 %	0.02 %	1	0.00 %	15	0.00 %	375 / 442	PRE
Kinnevik Investment AB	0.00 %	0.01 %	0	0.00 %	153	0.00 %	433 / 442	PRE
Komercni Banka	0.01 %	0.00 %	0	0.00 %	4	0.00 %	146 / 442	TC
Korea Investment Holdings Co Ltd	0.05 %	0.00 %	26	0.00 %	9	0.12 %	267 / 442	TC
Krung Thai Bank Co	0.00 %	0.00 %	0	0.00 %	4	0.00 %	123 / 442	TC
Kyushu Financial Hds	0.00 %	0.00 %	0	0.00 %	5	0.00 %	198 / 442	TC
Legal & General Group	0.00 %	0.02 %	1	0.00 %	4	0.01 %	104 / 442	AR
Legg Mason Inc	0.00 %		0	0.00 %	4	0.00 %	N / A	CDP
Leucadia National Corp (NY)	0.00 %	0.01 %	75	0.01 %	484	-0.00 %	439 / 442	TC
Liberty Hldgs	0.00 %	0.00 %	0	0.00 %	10	0.00 %	305 / 442	ENV
Lincoln National Corp	0.01 %	0.02 %	0	0.00 %	2	0.01 %	18 / 442	PRE
Lloyds Banking Group Plc	0.02 %	0.07 %	4	0.00 %	6	0.03 %	213 / 442	AR
Loews Corp	0.01 %	0.02 %	13	0.00 %	79	0.00 %	425 / 442	TC
London Stock Exchange Plc	0.02 %	0.02 %	1	0.00 %	12	0.00 %	356 / 442	AR
Lundbergs AB-B Shs	0.00 %	0.00 %	1	0.00 %	89	0.00 %	430 / 442	TC
Luzerner Kantonalbank Reg	0.01 %		0	0.00 %	4	0.00 %	N / A	TC
M&T Bank Corp	0.00 %	0.03 %	0	0.00 %	6	0.00 %	214 / 442	TC
Macquarie Group Ltd	1.06 %	1.01 %	130	0.02 %	10	0.52 %	302 / 442	CDP
Magellan Financial Group Limited	0.08 %	0.11 %	0	0.00 %	2	0.01 %	2 / 442	CDP
Malayan Banking Bhd	0.00 %	0.01 %	0	0.00 %	7	0.00 %	251 / 442	ENV*
Man Group	0.00 %		0	0.00 %	8	0.00 %	N / A	AR*



S&P Dow Jones Indices  
ESG Analysis

# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Manulife Financial Corp	0.00 %	0.04 %	3	0.00 %	16	0.01 %	380 / 442	PRE
Mapfre SA	0.01 %	0.00 %	1	0.00 %	2	0.02 %	16 / 442	ENV*
Markel Corp	0.11 %	0.02 %	5	0.00 %	3	0.06 %	57 / 442	TC
Marsh & McLennan Companies	0.01 %	0.05 %	1	0.00 %	8	0.01 %	258 / 442	PRE
Mebuki Financial Group Inc	0.04 %	0.00 %	1	0.00 %	5	0.01 %	203 / 442	TC
Medibank Private Limited	0.07 %	0.26 %	7	0.00 %	3	0.09 %	76 / 442	TC
Mediobanca SpA	0.00 %	0.01 %	0	0.00 %	3	0.00 %	33 / 442	PRE
Mega Financial Holding Co Ltd	0.00 %	0.01 %	0	0.00 %	4	0.00 %	142 / 442	TC
Metlife Inc	0.01 %	0.06 %	1	0.00 %	2	0.02 %	13 / 442	PRE
Mitsubishi UFJ Financial Group Inc	0.03 %	0.10 %	3	0.00 %	7	0.02 %	253 / 442	PRE
Mitsubishi UFJ Lease & Finance Co Ltd	0.00 %	0.00 %	2	0.00 %	25	0.00 %	409 / 442	TC
Mizrahi Tefahot Bank Ltd	0.01 %	0.00 %	1	0.00 %	16	0.00 %	381 / 442	ENV*
Mizuho Financial Group Inc	0.01 %	0.05 %	1	0.00 %	9	0.01 %	287 / 442	CDP
Moneta Money Bank	0.00 %	0.00 %	0	0.00 %	4	0.00 %	154 / 442	TC
Moody's Corp	0.00 %	0.02 %	0	0.00 %	17	0.00 %	387 / 442	PRE
Morgan Stanley	0.01 %	0.07 %	2	0.00 %	11	0.01 %	345 / 442	PRE
Mortgage Choice Ltd	0.02 %	0.01 %	4	0.00 %	10	0.01 %	317 / 442	TC
MS&AD Insurance Group Holdings Inc	0.00 %	0.02 %	1	0.00 %	4	0.01 %	94 / 442	CDP
MSCI Inc	0.00 %	0.01 %	0	0.00 %	16	0.00 %	379 / 442	TC
Munich Re AG	0.01 %	0.04 %	2	0.00 %	3	0.02 %	75 / 442	PRE
Nasdaq Inc	0.00 %	0.01 %	1	0.00 %	20	0.00 %	399 / 442	TC
National Australia Bank Ltd	2.59 %	2.95 %	222	0.03 %	11	0.80 %	338 / 442	ENV*
National Bank of Canada	0.00 %	0.02 %	0	0.00 %	4	0.00 %	95 / 442	CDP
Natixis	0.01 %	0.01 %	1	0.00 %	3	0.01 %	80 / 442	CDP
Navient Corp	0.00 %	0.01 %	1	0.00 %	10	0.00 %	310 / 442	TC
Navigators Group Inc	0.04 %		4	0.00 %	3	0.04 %	N / A	TC
Nedbank Group	0.00 %	0.00 %	1	0.00 %	35	0.00 %	417 / 442	CDP
NEW CHINA LIFE INSURANCE CO	0.00 %	0.00 %	0	0.00 %	3	0.00 %	51 / 442	TC
New York Community Bancorp Inc	0.00 %	0.01 %	0	0.00 %	4	0.00 %	111 / 442	TC
NIB Holdings Limited	0.02 %	0.08 %	1	0.00 %	3	0.02 %	71 / 442	TC
NN Group N.V.	0.01 %	0.01 %	1	0.00 %	2	0.02 %	14 / 442	CDP
Nomura Holdings Inc	0.00 %	0.03 %	1	0.00 %	11	0.00 %	341 / 442	CDP
Nordea AB	0.01 %	0.04 %	0	0.00 %	4	0.00 %	115 / 442	PRE
Northern Trust Corp (IL)	0.00 %	0.02 %	0	0.00 %	12	0.00 %	355 / 442	PRE
OFX Group Limited	0.08 %	0.01 %	8	0.00 %	11	0.03 %	337 / 442	TC
Old Mutual [SA Cross-List]	0.00 %	0.02 %	5	0.00 %	27	0.01 %	412 / 442	PRE



S&P Dow Jones Indices  
ESG Analysis

# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Onex Corp Subvtg	0.00 %	0.01 %	13	0.00 %	75	0.01 %	424 / 442	TC
Orix Corp	0.00 %	0.02 %	2	0.00 %	22	0.00 %	407 / 442	CDP
OTP Bank	0.02 %	0.01 %	3	0.00 %	10	0.01 %	309 / 442	ENV*
Overseas-Chinese Banking	0.00 %	0.03 %	0	0.00 %	5	0.00 %	205 / 442	TC
Pargesa Hldgs SA Br	0.00 %	0.00 %	220	0.03 %	1,013	-0.02 %	441 / 442	TC
Partners Group Hldg	0.00 %	0.01 %	0	0.00 %	12	0.00 %	353 / 442	PRE
People's Insurance Co. (Group) of China	0.00 %	0.00 %	1	0.00 %	3	0.02 %	69 / 442	TC
People's United Financial Inc	0.00 %	0.01 %	0	0.00 %	4	0.00 %	136 / 442	TC
Perpetual Limited	0.02 %	0.08 %	1	0.00 %	9	0.01 %	271 / 442	PRE
PICC Property and Casualty Co. Ltd. - H	0.00 %	0.01 %	0	0.00 %	3	0.01 %	60 / 442	TC
Ping An Insurance (Group) Co of China Ltd	0.00 %	0.04 %	0	0.00 %	3	0.00 %	84 / 442	TC
Pinnacle Financial	0.04 %		1	0.00 %	4	0.01 %	N / A	TC
PKO Bank Polski SA	0.00 %	0.01 %	0	0.00 %	5	0.00 %	191 / 442	TC
Platinum Asset Management Limited	0.02 %	0.04 %	0	0.00 %	6	0.00 %	208 / 442	TC
PNC Finl Services Group	0.01 %	0.07 %	2	0.00 %	19	0.00 %	397 / 442	PRE
Poste Italiane Spa	0.00 %	0.00 %	1	0.00 %	9	0.01 %	283 / 442	TC
Power Corporation of Canada	0.00 %	0.01 %	1	0.00 %	3	0.02 %	48 / 442	CDP*
Power Finance Corp Ltd	0.00 %	0.00 %	0	0.00 %	11	0.00 %	331 / 442	TC
Power Financial Corp	0.00 %	0.01 %	1	0.00 %	2	0.01 %	7 / 442	PRE
Powszechny Zaklad Ubezpieczen SA	0.00 %	0.01 %	0	0.00 %	3	0.00 %	59 / 442	TC
Principal Financial Group	0.00 %	0.02 %	1	0.00 %	5	0.00 %	163 / 442	PRE
Progressive Corp	0.00 %	0.03 %	2	0.00 %	10	0.01 %	326 / 442	PRE
Provident Financial	0.00 %	0.01 %	0	0.00 %	5	0.00 %	176 / 442	AR
Prudential Financial Inc	0.01 %	0.06 %	2	0.00 %	4	0.02 %	99 / 442	OTH*
Prudential Plc	0.01 %	0.07 %	1	0.00 %	3	0.01 %	27 / 442	ENV
Public Bank Bhd	0.07 %	0.02 %	4	0.00 %	5	0.03 %	195 / 442	TC
QBE Insurance Group Ltd	0.82 %	0.58 %	96	0.01 %	3	1.31 %	42 / 442	ENV*
Raiffeisen Bank International AG	0.00 %	0.00 %	1	0.00 %	10	0.00 %	315 / 442	CDP
Raymond James Financial Inc	0.00 %	0.01 %	1	0.00 %	9	0.00 %	284 / 442	TC
Regions Financial Corp	0.01 %	0.02 %	0	0.00 %	5	0.00 %	182 / 442	TC
Reinsurance Group of America	0.00 %	0.01 %	0	0.00 %	3	0.00 %	56 / 442	TC
RenaissanceRe Hldgs	0.00 %	0.01 %	0	0.00 %	3	0.00 %	40 / 442	PRE
Resona Holdings Inc	0.01 %	0.01 %	1	0.00 %	11	0.00 %	339 / 442	ENV*
Royal Bank of Canada	0.02 %	0.13 %	1	0.00 %	6	0.01 %	227 / 442	ENV*
Royal Bank of Scotland Group	0.00 %	0.01 %	1	0.00 %	15	0.00 %	377 / 442	AR*
RSA Insurance Group Plc	0.00 %	0.01 %	0	0.00 %	4	0.00 %	89 / 442	CDP



S&P Dow Jones Indices  
ESG Analysis

# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
S&P Global Inc	0.00 %	0.04 %	0	0.00 %	11	0.00 %	347 / 442	ENV*
Saga Plc	0.00 %		0	0.00 %	10	0.00 %	N / A	TC
Sampo Oyj A	0.00 %	0.03 %	0	0.00 %	2	0.00 %	15 / 442	AR*
Samsung Card	0.00 %	0.00 %	0	0.00 %	10	0.00 %	306 / 442	TC
Samsung Fire & Marine	0.00 %	0.01 %	0	0.00 %	3	0.00 %	26 / 442	CDP
Sanlam Ltd	0.00 %	0.01 %	0	0.00 %	5	0.00 %	185 / 442	CDP
Santander Consumer USA Holdings Inc	0.00 %		0	0.00 %	10	0.00 %	N / A	TC
Sberbank of Russia PJSC	0.28 %	0.04 %	55	0.01 %	11	0.19 %	349 / 442	PRE
SBI Holdings Inc	0.00 %	0.00 %	0	0.00 %	11	0.00 %	348 / 442	TC
Schroders Plc	0.00 %	0.01 %	0	0.00 %	3	0.00 %	74 / 442	AR
Schwab Charles Corp	0.11 %	0.06 %	6	0.00 %	14	0.02 %	367 / 442	PRE
Schweiz-Ruckversicherungs Br	0.02 %	0.04 %	2	0.00 %	2	0.04 %	5 / 442	ENV*
SCOR SE	0.00 %	0.01 %	1	0.00 %	3	0.01 %	24 / 442	OTH*
Scottish Pacific Group Ltd	0.05 %	0.01 %	3	0.00 %	10	0.01 %	325 / 442	TC
SEB-Skand Enskilda Banken	0.00 %	0.02 %	0	0.00 %	3	0.00 %	82 / 442	CDP
SEI Investments Corp	0.00 %	0.01 %	0	0.00 %	9	0.00 %	279 / 442	TC
Selective Insurance Group Inc	0.04 %		4	0.00 %	3	0.05 %	N / A	TC
Seven Bank Ltd	0.00 %	0.00 %	0	0.00 %	3	0.00 %	68 / 442	CDP
Shinhan Financial Group Ltd	0.04 %	0.02 %	7	0.00 %	7	0.04 %	248 / 442	CDP
Shinsei Bank Ltd	0.00 %	0.00 %	0	0.00 %	9	0.00 %	290 / 442	TC
Shizuoka Bank	0.00 %	0.01 %	0	0.00 %	5	0.00 %	187 / 442	TC
Siam Commercial Bank PCL	0.00 %	0.01 %	0	0.00 %	4	0.00 %	126 / 442	TC
Signature Bank NY	0.00 %	0.01 %	0	0.00 %	5	0.00 %	174 / 442	TC
Singapore Exchange Ltd	0.00 %	0.01 %	0	0.00 %	9	0.00 %	297 / 442	TC
SLM Corp	0.00 %		0	0.00 %	10	0.00 %	N / A	TC
Societe Generale	0.07 %	0.05 %	21	0.00 %	5	0.18 %	165 / 442	CDP
Sompo Holdings Inc	0.00 %	0.02 %	1	0.00 %	4	0.01 %	96 / 442	CDP*
SONY FINANCIAL HOLDINGS INC	0.00 %	0.00 %	0	0.00 %	3	0.00 %	78 / 442	TC
South State Corporation	0.05 %		1	0.00 %	4	0.01 %	N / A	TC
St Galler Kantonalbank AG	0.01 %		0	0.00 %	4	0.00 %	N / A	TC
St James's Place	0.00 %	0.01 %	0	0.00 %	2	0.00 %	3 / 442	AR*
Standard Bank Group Ltd	0.00 %	0.02 %	1	0.00 %	16	0.00 %	382 / 442	CDP
Standard Chartered	0.01 %	0.04 %	2	0.00 %	15	0.01 %	376 / 442	ENV
Standard Life Aberdeen	0.00 %	0.01 %	0	0.00 %	3	0.00 %	47 / 442	CDP
State Bank of India	0.00 %	0.01 %	0	0.00 %	6	0.00 %	223 / 442	TC
State Street Corp	0.11 %	0.04 %	17	0.00 %	12	0.05 %	361 / 442	CDP



S&P Dow Jones Indices  
ESG Analysis

# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Steadfast Group Limited	0.09 %	0.06 %	9	0.00 %	10	0.03 %	321 / 442	TC
Sul America SA	0.11 %	0.00 %	17	0.00 %	2	0.35 %	9 / 442	ENV
Sumitomo Mitsui Financial Group	0.08 %	0.06 %	11	0.00 %	6	0.07 %	236 / 442	TC
Sumitomo Mitsui Trust Holdings Inc	0.00 %	0.01 %	0	0.00 %	7	0.00 %	240 / 442	CDP
Sun Life Financial Serv Canada	0.00 %	0.03 %	1	0.00 %	6	0.00 %	225 / 442	CDP
Suncorp Group Ltd	0.47 %	0.56 %	79	0.01 %	6	0.55 %	212 / 442	ENV*
SunTrust Banks Inc (GA)	0.01 %	0.03 %	0	0.00 %	5	0.00 %	186 / 442	TC
Suruga Bank	0.00 %	0.00 %	0	0.00 %	4	0.00 %	151 / 442	TC
Svenska Handelsbanken	0.03 %	0.03 %	1	0.00 %	4	0.01 %	91 / 442	ENV
Swedbank AB	0.00 %	0.03 %	0	0.00 %	6	0.00 %	233 / 442	AR*
Swiss Life Reg	0.00 %	0.01 %	1	0.00 %	2	0.01 %	11 / 442	CDP
Synchrony Financial	0.00 %	0.03 %	1	0.00 %	10	0.00 %	312 / 442	TC
Synovus Financial Corp (GA)	0.04 %		1	0.00 %	4	0.01 %	N / A	TC
T Rowe Price Group Inc	0.00 %	0.02 %	0	0.00 %	10	0.00 %	322 / 442	PRE
T&D Holdings Inc	0.00 %	0.01 %	1	0.00 %	4	0.01 %	113 / 442	CDP
Taichung Commercial Bank	0.00 %		0	0.00 %	4	0.00 %	N / A	TC
Talanx AG	0.00 %		1	0.00 %	2	0.01 %	N / A	ENV*
TD Ameritrade Holding Corporation	0.03 %	0.01 %	2	0.00 %	10	0.01 %	299 / 442	TC
The Bank of New York Mellon Corp	0.10 %	0.06 %	14	0.00 %	13	0.04 %	362 / 442	PRE
Thomson Reuters Corporation	0.00 %	0.02 %	2	0.00 %	35	0.00 %	418 / 442	PRE
Thurgauer Kantonalbank	0.00 %		0	0.00 %	4	0.00 %	N / A	TC
Tokio Marine Holdings Inc	0.00 %	0.04 %	1	0.00 %	3	0.01 %	72 / 442	CDP
Torchmark Corp	0.00 %	0.01 %	0	0.00 %	4	0.00 %	152 / 442	TC
Toronto-Dominion Bank	0.04 %	0.11 %	4	0.00 %	9	0.02 %	286 / 442	ENV*
Travelers Cos Inc	0.01 %	0.04 %	1	0.00 %	3	0.01 %	41 / 442	OTH*
Tryg A/S	0.01 %	0.00 %	0	0.00 %	3	0.01 %	37 / 442	AR*
Turkiye Garanti Bankasi	0.00 %	0.01 %	0	0.00 %	11	0.00 %	343 / 442	CDP
Turkiye Halk Bankasi	0.00 %	0.00 %	0	0.00 %	12	0.00 %	354 / 442	PRE
Turkiye Is Bankasi A	0.00 %	0.00 %	0	0.00 %	4	0.00 %	157 / 442	ENV*
Turkiye Vakiflar Bankasi TAO	0.00 %	0.00 %	0	0.00 %	5	0.00 %	171 / 442	CDP
UBS Group AG	0.09 %	0.07 %	12	0.00 %	8	0.06 %	256 / 442	PRE
Unicredit SpA Ord	0.01 %	0.04 %	2	0.00 %	12	0.01 %	350 / 442	PRE
Unipol SpA	0.00 %		1	0.00 %	3	0.01 %	N / A	ENV
UnipolSai Assicurazioni SpA	0.00 %	0.00 %	1	0.00 %	4	0.01 %	90 / 442	ENV
UNIQA Versicherungen AG	0.00 %		1	0.00 %	3	0.01 %	N / A	TC
United Overseas Bank	0.00 %	0.03 %	0	0.00 %	5	0.00 %	173 / 442	TC





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## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mnn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Unum Group	0.00 %	0.01 %	1	0.00 %	4	0.01 %	92 / 442	PRE
US Bancorp	0.01 %	0.11 %	1	0.00 %	16	0.00 %	385 / 442	CDP*
Validus Holdings Ltd	0.00 %		0	0.00 %	3	0.00 %	N / A	TC
Vienna Insurance Group	0.00 %		0	0.00 %	3	0.00 %	N / A	TC
Vontobel Hldgs AG Reg	0.00 %		0	0.00 %	5	0.00 %	N / A	CDP
Voya Financial, Inc	0.04 %	0.01 %	9	0.00 %	4	0.11 %	88 / 442	TC
Washington H Soul Pattinson & Company	0.03 %	0.07 %	13	0.00 %	85	0.00 %	429 / 442	TC
Webster Financial Corp (CT)	0.06 %		2	0.00 %	4	0.02 %	N / A	TC
Wells Fargo & Co	0.15 %	0.33 %	23	0.00 %	14	0.06 %	372 / 442	ENV*
Wendel	0.00 %	0.00 %	7	0.00 %	46	0.01 %	420 / 442	TC
Westpac Banking Corp	2.53 %	3.89 %	155	0.02 %	10	0.58 %	323 / 442	ENV*
Willis Towers Watson PLC	0.00 %	0.02 %	1	0.00 %	17	0.00 %	388 / 442	TC
Woori Bank	0.00 %	0.00 %	1	0.00 %	14	0.00 %	371 / 442	CDP
WR Berkley Corp	0.00 %	0.01 %	0	0.00 %	3	0.00 %	61 / 442	TC
XL Group Ltd	0.00 %	0.01 %	0	0.00 %	2	0.01 %	21 / 442	ENV*
XPO Logistics Inc	0.36 %		1,031	0.14 %	55	0.62 %	N / A	TC
Yamaguchi Financial Group	0.00 %	0.00 %	0	0.00 %	4	0.00 %	148 / 442	TC
Zions Bancorp (UT)	0.01 %		0	0.00 %	4	0.00 %	N / A	TC
Zurich Insurance Group AG	0.01 %	0.05 %	1	0.00 %	3	0.02 %	38 / 442	CDP
<b>Health Care</b>	<b>10.15 %</b>	<b>8.89 %</b>	<b>6,653</b>	<b>0.89 %</b>	<b>39</b>	<b>6.31 %</b>		
Abbott Laboratories	0.06 %	0.09 %	122	0.02 %	199	0.01 %	178 / 181	CDP
AbbVie Inc.	0.21 %	0.13 %	60	0.01 %	36	0.06 %	49 / 181	CDP
Actelion Ltd	0.01 %	0.03 %	0	0.00 %	26	0.00 %	26 / 181	CDP
Aetna Inc	0.23 %	0.06 %	73	0.01 %	7	0.44 %	5 / 181	PRE
Agilent Technologies Inc	0.00 %	0.02 %	2	0.00 %	44	0.00 %	114 / 181	PRE
Alexion Pharmaceuticals Inc	0.00 %	0.03 %	1	0.00 %	45	0.00 %	119 / 181	TC
Alfresa Holdings Corp	0.00 %	0.00 %	6	0.00 %	13	0.02 %	11 / 181	AR*
Align Technology Inc	0.00 %	0.01 %	0	0.00 %	62	0.00 %	158 / 181	TC
Alkermes plc	0.00 %	0.01 %	0	0.00 %	39	0.00 %	84 / 181	TC
Allergan plc	0.00 %	0.11 %	1	0.00 %	23	0.00 %	22 / 181	CDP
AmerisourceBergen Corp	0.04 %	0.02 %	112	0.01 %	10	0.43 %	7 / 181	OTH*
Amgen Inc	0.05 %	0.15 %	9	0.00 %	25	0.01 %	23 / 181	ENV*
AMN Healthcare Services Inc	0.05 %		20	0.00 %	15	0.05 %	N / A	TC
Ansell Ltd	0.03 %	0.11 %	102	0.01 %	155	0.01 %	175 / 181	PRE
Anthem Inc	0.20 %	0.05 %	33	0.00 %	3	0.53 %	1 / 181	CDP





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## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Astellas Pharma Inc	0.00 %	0.03 %	2	0.00 %	29	0.00 %	31 / 181	ENV*
AstraZeneca Plc	0.04 %	0.10 %	18	0.00 %	39	0.02 %	73 / 181	AR*
Australian Pharmaceutical Ind	0.02 %	0.02 %	106	0.01 %	37	0.10 %	56 / 181	TC
Bard C.R. Inc	0.02 %	0.02 %	9	0.00 %	52	0.01 %	138 / 181	ENV*
Baxter Intl Inc	0.01 %	0.03 %	6	0.00 %	84	0.00 %	166 / 181	CDP
Bayer AG	0.17 %	0.12 %	566	0.08 %	174	0.06 %	177 / 181	AR*
Becton Dickinson & Co	0.13 %	0.05 %	55	0.01 %	37	0.05 %	58 / 181	ENV*
Biogen Inc	0.04 %	0.07 %	5	0.00 %	19	0.01 %	17 / 181	CDP
Biomarin Pharmaceutical Inc	0.00 %	0.02 %	0	0.00 %	39	0.00 %	77 / 181	TC
BioMerieux	0.00 %		2	0.00 %	38	0.00 %	N / A	OTH
Boston Scientific Corp	0.05 %	0.04 %	13	0.00 %	33	0.01 %	37 / 181	OTH
Bristol-Myers Squibb	0.00 %	0.11 %	1	0.00 %	36	0.00 %	48 / 181	CDP
BroadSoft Inc	0.04 %		4	0.00 %	12	0.01 %	N / A	TC
Cardinal Health Inc	0.01 %	0.03 %	17	0.00 %	15	0.04 %	12 / 181	PRE
Celesio AG	0.00 %		15	0.00 %	40	0.01 %	N / A	TC
Celgene Corp	0.08 %	0.12 %	5	0.00 %	17	0.01 %	14 / 181	CDP
Centene Corp	0.00 %	0.02 %	1	0.00 %	3	0.01 %	3 / 181	TC
Cerner Corp	0.59 %	0.02 %	77	0.01 %	15	0.19 %	13 / 181	TC
Charles River Laboratories	0.04 %		24	0.00 %	49	0.02 %	N / A	TC
Chemed Corp	0.02 %		27	0.00 %	59	0.02 %	N / A	TC
Chugai Pharmaceutical Co	0.00 %	0.01 %	1	0.00 %	33	0.00 %	36 / 181	ENV*
Cigna Corporation	0.01 %	0.05 %	1	0.00 %	3	0.01 %	4 / 181	ENV*
Cochlear Ltd	0.05 %	0.26 %	14	0.00 %	60	0.01 %	152 / 181	TC
Coloplast AS B	0.00 %	0.01 %	1	0.00 %	54	0.00 %	146 / 181	CDP
Community Health Systems	0.00 %		30	0.00 %	53	0.02 %	N / A	TC
Cooper Companies Inc	0.21 %	0.01 %	78	0.01 %	53	0.05 %	145 / 181	TC
CSL Ltd	1.57 %	1.89 %	359	0.05 %	53	0.23 %	143 / 181	CDP
CYBERDYNE Inc	0.00 %	0.00 %	0	0.00 %	62	0.00 %	157 / 181	TC
Daiichi Sankyo Co Ltd	0.00 %	0.02 %	3	0.00 %	37	0.00 %	55 / 181	CDP
DaVita Inc	0.03 %	0.01 %	51	0.01 %	40	0.05 %	93 / 181	TC
Dechra Pharmaceuticals	0.00 %		1	0.00 %	29	0.00 %	N / A	AR*
Dentsply Sirona Inc.	0.13 %	0.02 %	70	0.01 %	77	0.03 %	164 / 181	PRE
DexCom Inc	0.00 %	0.01 %	0	0.00 %	49	0.00 %	127 / 181	TC
Diasorin SpA	0.14 %		38	0.01 %	52	0.02 %	N / A	TC
Dr Reddy's Laboratories Ltd	0.12 %	0.01 %	217	0.03 %	142	0.03 %	173 / 181	PRE
Dragerwerk AG & Co KGaA	0.10 %		358	0.05 %	52	0.23 %	N / A	TC



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## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Edwards Lifesciences Corp	0.09 %	0.02 %	15	0.00 %	37	0.01 %	57 / 181	CDP
Eisai Co	0.00 %	0.02 %	1	0.00 %	39	0.00 %	75 / 181	CDP
Endo International plc	0.00 %		2	0.00 %	38	0.00 %	N / A	TC
Envision Healthcare Corp	0.00 %	0.01 %	1	0.00 %	34	0.00 %	41 / 181	TC
Essilor Intl	0.00 %	0.03 %	2	0.00 %	56	0.00 %	149 / 181	AR*
Eurofins Scientific	0.00 %	0.01 %	0	0.00 %	52	0.00 %	135 / 181	TC
Express Scripts Holding Co.	0.02 %	0.05 %	26	0.00 %	17	0.06 %	16 / 181	TC
Fisher & Paykel Healthcare Corp	0.27 %	0.04 %	48	0.01 %	36	0.05 %	51 / 181	CDP
Fresenius Medical Care AG	0.00 %	0.02 %	3	0.00 %	42	0.00 %	106 / 181	TC
Fresenius SE & Co KGaA	0.00 %	0.04 %	5	0.00 %	40	0.00 %	94 / 181	TC
Fuji Pharma Co	0.00 %		0	0.00 %	38	0.00 %	N / A	TC
Fukuda Denshi Co	0.00 %		1	0.00 %	48	0.00 %	N / A	TC
Genmab AS	0.00 %	0.01 %	0	0.00 %	52	0.00 %	136 / 181	TC
Gerresheimer AG	0.05 %		373	0.05 %	333	-0.00 %	N / A	PRE
Getinge AB	0.00 %	0.00 %	2	0.00 %	41	0.00 %	101 / 181	CDP
Gilead Sciences Inc	0.01 %	0.11 %	3	0.00 %	21	0.01 %	18 / 181	PRE
GlaxoSmithKline	0.12 %	0.12 %	75	0.01 %	48	0.05 %	124 / 181	AR*
GN Store Nord AS	0.04 %		18	0.00 %	36	0.02 %	N / A	TC
Grifols SA	0.00 %	0.01 %	1	0.00 %	32	0.00 %	35 / 181	CDP
Haemato AG	0.00 %		1	0.00 %	39	0.00 %	N / A	TC
Haemonetics Corp	0.00 %		0	0.00 %	21	0.00 %	N / A	TC
Halyard Health Inc	0.04 %		110	0.01 %	86	0.04 %	N / A	ENV*
HCA Healthcare Inc	0.00 %	0.03 %	7	0.00 %	52	0.00 %	139 / 181	TC
Healthscope Ltd	0.01 %	0.13 %	11	0.00 %	57	0.01 %	150 / 181	ENV*
Hikma Pharmaceuticals	0.00 %	0.00 %	2	0.00 %	70	0.00 %	160 / 181	ENV
Hill-Rom Holdings Inc	0.07 %		88	0.01 %	62	0.05 %	N / A	TC
Hisamitsu Pharmaceutical Co	0.00 %	0.00 %	1	0.00 %	37	0.00 %	60 / 181	TC
Hologic Inc	0.00 %	0.01 %	1	0.00 %	42	0.00 %	109 / 181	TC
Hoya Corp	0.14 %	0.02 %	102	0.01 %	87	0.03 %	168 / 181	ENV*
Humana Inc	0.01 %	0.04 %	1	0.00 %	3	0.02 %	2 / 181	PRE
IDEXX Laboratories Inc	0.00 %	0.02 %	0	0.00 %	42	0.00 %	104 / 181	TC
Illumina Inc	0.00 %	0.03 %	0	0.00 %	42	0.00 %	105 / 181	TC
Impedimed Limited	0.08 %	0.01 %	2	0.00 %	40	0.00 %	91 / 181	TC
Incyte Corp	0.00 %	0.03 %	0	0.00 %	38	0.00 %	69 / 181	TC
Indivior Plc	0.05 %		11	0.00 %	17	0.03 %	N / A	AR*
Intuitive Surgical Inc	0.00 %	0.04 %	0	0.00 %	49	0.00 %	126 / 181	TC



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## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mnn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Japara Healthcare Limited	0.11 %	0.02 %	143	0.02 %	60	0.08 %	154 / 181	TC
Jazz Pharmaceuticals plc	0.03 %	0.01 %	7	0.00 %	39	0.01 %	83 / 181	TC
Johnson & Johnson	0.08 %	0.42 %	25	0.00 %	39	0.02 %	72 / 181	ENV*
Kyorin Holdings Inc	0.00 %		2	0.00 %	32	0.00 %	N / A	AR*
Kyowa Hakko Kogyo Co	0.00 %	0.01 %	4	0.00 %	125	0.00 %	171 / 181	ENV
Lab Corp of America Hldgs	0.00 %	0.02 %	4	0.00 %	43	0.00 %	113 / 181	TC
Lilly Eli & Co	0.05 %	0.10 %	28	0.00 %	72	0.01 %	161 / 181	PRE
Lonza AG	0.00 %	0.01 %	8	0.00 %	149	0.00 %	174 / 181	CDP
M3 Inc	0.00 %	0.01 %	0	0.00 %	17	0.00 %	15 / 181	TC
Magellan Health Services	0.00 %		2	0.00 %	17	0.01 %	N / A	TC
Mallinckrodt plc	0.00 %	0.01 %	1	0.00 %	40	0.00 %	95 / 181	TC
Masimo Corp	0.02 %		3	0.00 %	40	0.00 %	N / A	TC
Mayne Pharma Group Ltd	0.13 %	0.06 %	21	0.00 %	39	0.02 %	87 / 181	TC
McKesson Corp	0.01 %	0.04 %	18	0.00 %	11	0.06 %	9 / 181	ENV
Mediclinic International PLC	0.00 %	0.00 %	2	0.00 %	55	0.00 %	147 / 181	CDP
Medipal Holdings Co	0.00 %	0.00 %	25	0.00 %	38	0.02 %	62 / 181	TC
Mednax Inc	0.00 %	0.01 %	1	0.00 %	30	0.00 %	33 / 181	TC
Medtronic plc	0.13 %	0.14 %	45	0.01 %	38	0.04 %	67 / 181	CDP
Merck & Co Inc	0.02 %	0.22 %	7	0.00 %	43	0.01 %	110 / 181	PRE
MERCK KGaA	0.31 %	0.02 %	281	0.04 %	74	0.12 %	163 / 181	PRE
Metlifecare Ltd	0.00 %		0	0.00 %	62	0.00 %	N / A	TC
Mettler-Toledo Intl	0.03 %	0.02 %	10	0.00 %	43	0.01 %	112 / 181	PRE
Miraca Holdings Inc	0.00 %	0.00 %	5	0.00 %	45	0.00 %	116 / 181	TC
Mitsubishi Tanabe Pharma Corp	0.00 %	0.01 %	2	0.00 %	40	0.00 %	90 / 181	ENV*
Monash IVF Group Ltd	0.02 %	0.01 %	8	0.00 %	41	0.01 %	100 / 181	TC
Mylan NV	0.00 %	0.02 %	2	0.00 %	39	0.00 %	81 / 181	TC
Nanosonics Limited	0.09 %	0.03 %	6	0.00 %	39	0.01 %	76 / 181	TC
Novartis AG ADR	0.01 %	0.20 %	4	0.00 %	38	0.00 %	70 / 181	ENV*
Novo Nordisk AS	0.29 %	0.08 %	45	0.01 %	23	0.07 %	20 / 181	CDP
Olympus Corporation	0.00 %	0.01 %	1	0.00 %	38	0.00 %	71 / 181	CDP
Ono Pharmaceutical Co	0.00 %	0.01 %	0	0.00 %	34	0.00 %	43 / 181	CDP
Orion OYJ	0.00 %	0.01 %	1	0.00 %	42	0.00 %	107 / 181	ENV
Orpea	0.05 %		29	0.00 %	37	0.03 %	N / A	AR
Otsuka Holdings Co Ltd	0.00 %	0.02 %	6	0.00 %	78	0.00 %	165 / 181	CDP
Owens & Minor Inc	0.01 %		69	0.01 %	38	0.06 %	N / A	TC
Patterson Cos Inc	0.00 %	0.00 %	5	0.00 %	40	0.00 %	96 / 181	TC



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## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mnn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Perrigo Company	0.00 %	0.01 %	2	0.00 %	50	0.00 %	130 / 181	ENV*
Pfizer Inc	0.02 %	0.26 %	7	0.00 %	38	0.01 %	64 / 181	PRE
Pharmaxis	0.02 %		2	0.00 %	39	0.00 %	N / A	TC
Primary Health Care Ltd	0.02 %	0.05 %	27	0.00 %	35	0.03 %	46 / 181	TC
QIAGEN N.V.	0.00 %	0.01 %	1	0.00 %	49	0.00 %	128 / 181	TC
Quest Diagnostics	0.04 %	0.02 %	28	0.00 %	34	0.03 %	39 / 181	CDP
Quintiles IMS Holdings, Inc.	0.01 %	0.01 %	3	0.00 %	44	0.00 %	115 / 181	PRE
Ramsay Health Care Ltd	0.05 %	0.30 %	35	0.00 %	36	0.03 %	52 / 181	ENV*
Regeneron Pharmaceuticals Inc	0.04 %	0.04 %	4	0.00 %	25	0.01 %	24 / 181	PRE
Regis Healthcare Limited	0.03 %	0.02 %	23	0.00 %	60	0.01 %	153 / 181	TC
ResMed Inc	0.12 %	0.18 %	24	0.00 %	32	0.03 %	34 / 181	PRE
Rhoen-Klinikum AG	0.01 %		13	0.00 %	53	0.01 %	N / A	AR*
Richter Gedeon	0.01 %	0.00 %	5	0.00 %	39	0.00 %	74 / 181	TC
Roche Hldgs AG Br	0.11 %	0.22 %	24	0.00 %	28	0.03 %	29 / 181	CDP
Ryman Healthcare Group Ltd	0.06 %	0.00 %	8	0.00 %	61	0.00 %	155 / 181	TC
Sanofi	0.06 %	0.13 %	26	0.00 %	36	0.03 %	50 / 181	PRE
Santen Pharmaceutical Co	0.00 %	0.01 %	1	0.00 %	41	0.00 %	102 / 181	TC
Schein Henry Inc	0.07 %	0.02 %	85	0.01 %	38	0.08 %	61 / 181	TC
Seattle Genetics Inc	0.00 %	0.01 %	0	0.00 %	45	0.00 %	118 / 181	TC
Shanghai Pharmaceuticals Holding Co Ltd	0.00 %	0.00 %	1	0.00 %	36	0.00 %	53 / 181	TC
Shionogi & Co	0.00 %	0.02 %	1	0.00 %	37	0.00 %	59 / 181	AR*
Shire Plc	0.08 %	0.06 %	17	0.00 %	28	0.02 %	30 / 181	AR*
Sigma Healthcare Ltd	0.26 %	0.04 %	828	0.11 %	35	0.85 %	44 / 181	TC
Sinopharm Group Co. Ltd. - H Shares	0.00 %	0.01 %	4	0.00 %	36	0.00 %	47 / 181	TC
Sirtex Medical Ltd	0.05 %	0.03 %	19	0.00 %	53	0.01 %	144 / 181	TC
Smith & Nephew	0.00 %	0.02 %	2	0.00 %	51	0.00 %	133 / 181	AR
Sonic Healthcare Ltd	0.10 %	0.30 %	48	0.01 %	25	0.07 %	25 / 181	ENV*
Sonova Holding AG	0.03 %	0.01 %	9	0.00 %	34	0.01 %	42 / 181	TC
Stada Arzneimittel AG	0.00 %		4	0.00 %	39	0.00 %	N / A	TC
Starpharma Holdings Limited	0.06 %	0.01 %	2	0.00 %	51	0.00 %	134 / 181	TC
Stryker Corp	0.12 %	0.05 %	33	0.00 %	34	0.04 %	38 / 181	PRE
Sumitomo Dainippon Pharma Co Ltd	0.00 %	0.00 %	2	0.00 %	34	0.00 %	40 / 181	CDP
Summerset Group Holdings Ltd	0.06 %		8	0.00 %	68	0.00 %	N / A	TC
Suzuken Co Ltd	0.01 %	0.00 %	76	0.01 %	38	0.07 %	65 / 181	TC
Systemex Corp	0.00 %	0.01 %	0	0.00 %	26	0.00 %	27 / 181	CDP
Taisho Pharmaceutical Holdings Co Ltd	0.00 %	0.00 %	1	0.00 %	41	0.00 %	98 / 181	TC



S&P Dow Jones Indices  
ESG Analysis

# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Takeda Pharmaceutical Co Ltd	0.00 %	0.04 %	1	0.00 %	38	0.00 %	63 / 181	ENV
Taro Pharmaceutical Industries	0.00 %	0.00 %	1	0.00 %	41	0.00 %	97 / 181	TC
Teleflex Inc	0.01 %	0.01 %	3	0.00 %	49	0.00 %	125 / 181	TC
Tenet Healthcare	0.00 %		14	0.00 %	53	0.01 %	N / A	TC
Terumo Corp	0.00 %	0.01 %	1	0.00 %	68	0.00 %	159 / 181	CDP
Teva Pharmaceutical Industries	0.00 %	0.04 %	3	0.00 %	47	0.00 %	122 / 181	PRE
Thermo Fisher Scientific	0.43 %	0.07 %	192	0.03 %	43	0.15 %	111 / 181	CDP
UCB SA	0.00 %	0.01 %	1	0.00 %	23	0.00 %	19 / 181	ENV
United Therapeutics Corp	0.00 %	0.01 %	2	0.00 %	50	0.00 %	131 / 181	TC
Unitedhealth Group Inc	0.01 %	0.19 %	5	0.00 %	10	0.02 %	8 / 181	CDP
Universal Health Services	0.03 %	0.01 %	53	0.01 %	52	0.03 %	140 / 181	TC
Valeant Pharmaceuticals International Inc.	0.00 %	0.00 %	9	0.00 %	84	0.00 %	167 / 181	CDP
Varian Medical Systems Inc	0.31 %	0.01 %	153	0.02 %	38	0.14 %	66 / 181	PRE
Vertex Pharmaceuticals Inc	0.00 %	0.03 %	0	0.00 %	50	0.00 %	132 / 181	TC
Vetoquinol SA	0.00 %		1	0.00 %	39	0.00 %	N / A	TC
Vifor Pharma Group	0.00 %	0.01 %	1	0.00 %	13	0.00 %	10 / 181	CDP
Virtus Health Limited	0.00 %	0.01 %	3	0.00 %	41	0.00 %	99 / 181	TC
VWR Corp	0.13 %		201	0.03 %	36	0.20 %	N / A	TC
Waters Corp	0.52 %	0.02 %	131	0.02 %	42	0.11 %	108 / 181	CDP
William Demant Hldg	0.00 %	0.00 %	1	0.00 %	29	0.00 %	32 / 181	CDP
Ypsomed Hldg AG	0.02 %		4	0.00 %	51	0.00 %	N / A	TC
Zimmer Biomet Holdings Inc	0.12 %	0.03 %	49	0.01 %	47	0.04 %	123 / 181	CDP
Zoetis Inc	0.00 %	0.03 %	1	0.00 %	38	0.00 %	68 / 181	TC
<b>Industrials</b>	<b>11.28 %</b>	<b>8.65 %</b>	<b>72,835</b>	<b>9.75 %</b>	<b>180</b>	<b>7.73 %</b>		
3M Co	0.10 %	0.14 %	195	0.03 %	201	0.01 %	312 / 385	ENV*
ABB Ltd	0.13 %	0.05 %	333	0.04 %	100	0.09 %	220 / 385	ENV*
Abertis Infraestructuras SA	0.00 %	0.01 %	1	0.00 %	37	0.00 %	62 / 385	PRE
Actividades Construc Y Serv	0.00 %	0.01 %	59	0.01 %	100	0.02 %	217 / 385	ENV*
Acuity Brands Inc	0.22 %	0.01 %	317	0.04 %	111	0.07 %	239 / 385	TC
Adani Enterprises Ltd	0.00 %		616	0.08 %	2,951	-0.07 %	N / A	AR*
Adecco Group AG	0.04 %	0.01 %	18	0.00 %	6	0.12 %	2 / 385	ENV*
ADP Promesses	0.00 %	0.00 %	1	0.00 %	34	0.00 %	57 / 385	CDP
Advanced Metallurgical	0.01 %		1,354	0.18 %	1,684	-0.15 %	N / A	TC
AECOM	0.00 %		1	0.00 %	23	0.00 %	N / A	PRE
Aena SA	0.04 %	0.01 %	19	0.00 %	81	0.01 %	184 / 385	PRE



S&P Dow Jones Indices  
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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mnn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
AerCap Holdings NV	0.00 %	0.01 %	2	0.00 %	27	0.00 %	40 / 385	TC
AGCO Corp	0.00 %	0.00 %	22	0.00 %	113	0.00 %	242 / 385	TC
Air China Ltd	0.00 %	0.00 %	104	0.01 %	819	-0.01 %	363 / 385	TC
Air New Zealand Ltd	0.05 %		1,992	0.27 %	642	-0.14 %	N / A	ENV*
Airbus SE	0.01 %	0.05 %	12	0.00 %	44	0.01 %	78 / 385	ENV
Alaska Air Group Inc	0.00 %		58	0.01 %	678	-0.00 %	N / A	PRE
Alfa Laval AB	0.00 %	0.01 %	4	0.00 %	99	0.00 %	216 / 385	CDP
Alfa SA	0.00 %	0.01 %	26	0.00 %	467	-0.00 %	347 / 385	ENV*
Allegion plc	0.03 %		13	0.00 %	44	0.01 %	N / A	TC
Alstom	0.00 %	0.01 %	9	0.00 %	89	0.00 %	198 / 385	AR*
Amada Co	0.00 %	0.00 %	4	0.00 %	136	0.00 %	265 / 385	TC
AMERCO Inc	0.00 %	0.00 %	1	0.00 %	21	0.00 %	27 / 385	TC
American Airlines Group Inc.	0.01 %	0.01 %	289	0.04 %	809	-0.02 %	362 / 385	PRE
AMETEK Inc	0.04 %	0.02 %	46	0.01 %	105	0.01 %	230 / 385	TC
ANA HOLDINGS INC	0.00 %	0.00 %	83	0.01 %	790	-0.01 %	359 / 385	TC
Andritz AG	0.00 %	0.00 %	5	0.00 %	104	0.00 %	226 / 385	ENV*
AP Moller - Maersk AS	0.05 %	0.02 %	1,447	0.19 %	635	-0.10 %	351 / 385	CDP
Apogee Enterprises Inc	0.06 %		96	0.01 %	72	0.04 %	N / A	TC
Applied Industrial Technologies	0.01 %		36	0.00 %	84	0.01 %	N / A	TC
Asahi Glass Co	0.00 %	0.01 %	85	0.01 %	682	-0.01 %	354 / 385	PRE
Ashtead Group	0.00 %	0.01 %	2	0.00 %	61	0.00 %	150 / 385	AR*
Assa Abloy B	0.00 %	0.03 %	4	0.00 %	150	0.00 %	278 / 385	ENV
Astec Industries Inc	0.03 %		107	0.01 %	126	0.02 %	N / A	TC
Atkins WS	0.06 %		68	0.01 %	22	0.12 %	N / A	AR*
Atlantia SpA	0.00 %	0.01 %	1	0.00 %	45	0.00 %	86 / 385	AR
Atlas Copco AB	0.01 %	0.04 %	6	0.00 %	94	0.00 %	207 / 385	AR
Auckland Intl Airport Ltd	0.17 %	0.02 %	14	0.00 %	37	0.01 %	65 / 385	ENV
Aurizon Holdings Limited	0.58 %	0.36 %	2,279	0.31 %	363	-0.05 %	334 / 385	ENV*
Austal Ltd	0.34 %	0.02 %	2,197	0.29 %	86	0.74 %	194 / 385	TC
Avis Budget Group Inc	0.00 %		2	0.00 %	21	0.00 %	N / A	TC
B/E Aerospace, Inc.	0.00 %	0.01 %	2	0.00 %	42	0.00 %	74 / 385	TC
Babcock Intl Group	0.00 %	0.00 %	2	0.00 %	31	0.00 %	51 / 385	AR*
BAE Systems Plc	0.01 %	0.03 %	13	0.00 %	63	0.01 %	156 / 385	AR*
Beijing Enterprises Holdings Ltd.	0.00 %	0.00 %	3	0.00 %	218	0.00 %	318 / 385	TC
BIC	0.00 %	0.00 %	2	0.00 %	127	0.00 %	258 / 385	ENV*
Bidvest Group	0.00 %	0.00 %	12	0.00 %	58	0.01 %	140 / 385	PRE



S&P Dow Jones Indices  
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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$m <sup>n</sup> )	Carbon Footprint Contribution (%) <sup>*</sup>	Footprint Rank in Benchmark Sector <sup>**</sup>	Data Source <sup>***</sup>
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Bilfinger SE	0.00 %		2	0.00 %	38	0.00 %	N / A	PRE
Boeing Co	0.01 %	0.13 %	13	0.00 %	42	0.01 %	73 / 385	OTH
Bollore Investissement	0.00 %	0.00 %	5	0.00 %	78	0.00 %	179 / 385	AR*
Bombardier Inc	0.00 %	0.00 %	4	0.00 %	60	0.00 %	149 / 385	PRE
Booz Allen Hamilton Holding Corp	0.00 %		2	0.00 %	21	0.00 %	N / A	TC
Boskalis Westminster Group	0.00 %	0.00 %	25	0.00 %	353	-0.00 %	333 / 385	ENV*
Bouygues	0.00 %	0.01 %	37	0.00 %	85	0.01 %	190 / 385	CDP
Brambles Industries Ltd	0.56 %	0.49 %	252	0.03 %	26	0.36 %	37 / 385	ENV*
Brenntag AG	0.07 %	0.01 %	116	0.02 %	36	0.11 %	60 / 385	TC
Bucher Industries AG Br	0.04 %		168	0.02 %	124	0.03 %	N / A	CDP*
Bunzl	0.00 %	0.01 %	2	0.00 %	18	0.00 %	22 / 385	ENV*
Bureau Veritas SA	0.00 %	0.01 %	1	0.00 %	20	0.00 %	26 / 385	CDP
Cabcharge Australia Ltd	0.05 %	0.01 %	60	0.01 %	58	0.03 %	141 / 385	TC
CAE Inc	0.00 %	0.01 %	1	0.00 %	36	0.00 %	59 / 385	TC
Canadian National Railways	0.10 %	0.07 %	283	0.04 %	447	-0.01 %	342 / 385	CDP
Canadian Pacific Railway Ltd	0.06 %	0.03 %	236	0.03 %	462	-0.01 %	345 / 385	CDP
Capita Group	0.00 %	0.01 %	1	0.00 %	17	0.00 %	20 / 385	ENV*
Caterpillar Inc	0.01 %	0.07 %	27	0.00 %	104	0.01 %	227 / 385	ENV*
Cathay Pacific Airways Ltd.	0.00 %	0.00 %	387	0.05 %	1,019	-0.04 %	376 / 385	AR*
CCR S.A.	0.00 %	0.01 %	0	0.00 %	44	0.00 %	81 / 385	PRE
Central Japan Railway Co	0.00 %	0.03 %	5	0.00 %	100	0.00 %	218 / 385	AR*
CH Robinson Worldwide Inc	0.00 %	0.01 %	7	0.00 %	53	0.00 %	106 / 385	TC
Chicago Bridge & Iron Co NV	0.00 %		7	0.00 %	67	0.00 %	N / A	TC
China Communications Construction Co.	0.00 %	0.01 %	20	0.00 %	101	0.01 %	222 / 385	AR*
China Eastern Airlines Corp Ltd	0.00 %		42	0.01 %	926	-0.00 %	N / A	PRE
China International Marine Containers	0.00 %		3	0.00 %	147	0.00 %	N / A	TC
China Railway Construction Corp Ltd	0.00 %	0.00 %	33	0.00 %	65	0.02 %	160 / 385	TC
China Railway Group Ltd	0.00 %	0.00 %	28	0.00 %	64	0.01 %	159 / 385	TC
China Southern Airlines Co Ltd	0.00 %	0.00 %	68	0.01 %	1,046	-0.01 %	378 / 385	ENV*
CIMIC Group Ltd	0.43 %	0.12 %	3,485	0.47 %	246	0.10 %	323 / 385	ENV*
Cintas Corp	0.00 %	0.01 %	3	0.00 %	61	0.00 %	151 / 385	TC
CITIC Limited	0.00 %	0.01 %	86	0.01 %	517	-0.00 %	348 / 385	TC
CJ Corp	0.00 %	0.00 %	11	0.00 %	214	0.00 %	316 / 385	TC
CK Hutchison Holding Ltd	0.00 %	0.04 %	2	0.00 %	37	0.00 %	64 / 385	TC
Cleanaway Waste Management	0.21 %	0.06 %	1,890	0.25 %	333	-0.02 %	332 / 385	ENV*
CNH Industrial NV	0.00 %	0.01 %	19	0.00 %	75	0.01 %	178 / 385	CDP





S&P Dow Jones Indices  
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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Cobham	0.00 %	0.00 %	3	0.00 %	57	0.00 %	134 / 385	CDP
Colas SA	0.00 %		8	0.00 %	135	0.00 %	N / A	PRE
Columbus McKinnon Corp	0.00 %		18	0.00 %	169	0.00 %	N / A	TC
Comfort Systems USA Inc	0.04 %		118	0.02 %	64	0.06 %	N / A	TC
ComfortDelGro Corp Ltd	0.00 %	0.00 %	5	0.00 %	285	0.00 %	329 / 385	ENV*
Continental Building Products Inc	0.03 %		129	0.02 %	268	0.00 %	N / A	TC
Copa Holdings SA	0.04 %		574	0.08 %	897	-0.05 %	N / A	AR*
CRRC Corporation Limited	0.00 %	0.00 %	2	0.00 %	85	0.00 %	189 / 385	TC
CSX Corporation	0.01 %	0.05 %	22	0.00 %	376	-0.00 %	335 / 385	PRE
Cummins Inc	0.00 %	0.03 %	10	0.00 %	85	0.00 %	193 / 385	CDP
Dai Nippon Printing Co	0.00 %	0.01 %	18	0.00 %	126	0.00 %	256 / 385	CDP
Daikin Industries	0.00 %	0.03 %	8	0.00 %	154	0.00 %	281 / 385	CDP
Danaher Corp	0.01 %	0.07 %	4	0.00 %	59	0.00 %	146 / 385	TC
Dassault Aviation	0.00 %	0.00 %	0	0.00 %	57	0.00 %	131 / 385	AR
DCC	0.00 %	0.01 %	2	0.00 %	16	0.00 %	16 / 385	CDP
Deere & Co	0.25 %	0.04 %	833	0.11 %	110	0.19 %	238 / 385	CDP
Delta Air Lines	0.01 %	0.01 %	225	0.03 %	668	-0.02 %	353 / 385	CDP
Deluxe Corp	0.04 %		64	0.01 %	89	0.02 %	N / A	TC
Deutsche Lufthansa Reg	0.01 %	0.00 %	849	0.11 %	627	-0.06 %	350 / 385	ENV*
Deutsche Post AG	0.01 %	0.04 %	43	0.01 %	133	0.01 %	262 / 385	AR*
DIP Corp	0.02 %		2	0.00 %	16	0.00 %	N / A	TC
DKSH Holding AG	0.16 %		204	0.03 %	17	0.45 %	N / A	TC
Donnelley R.R. & Sons	0.00 %		107	0.01 %	127	0.02 %	N / A	TC
Doosan Corp	0.00 %		12	0.00 %	80	0.00 %	N / A	ENV*
Doosan Heavy Indust & Construct	0.00 %	0.00 %	7	0.00 %	83	0.00 %	186 / 385	CDP
Dover Corp	0.00 %	0.02 %	9	0.00 %	108	0.00 %	237 / 385	CDP*
Downer EDI Ltd	0.32 %	0.11 %	1,915	0.26 %	78	0.73 %	181 / 385	CDP
Dsv A/S	0.00 %	0.01 %	18	0.00 %	383	-0.00 %	336 / 385	CDP
Dun & Bradstreet Corp	0.00 %	0.00 %	0	0.00 %	16	0.00 %	15 / 385	TC
East Japan Railway Co	0.00 %	0.04 %	12	0.00 %	129	0.00 %	259 / 385	CDP
Easyjet	0.01 %	0.00 %	189	0.03 %	808	-0.02 %	361 / 385	AR
Eaton Corp plc	0.01 %	0.04 %	22	0.00 %	189	0.00 %	309 / 385	ENV*
Edenred	0.00 %	0.01 %	0	0.00 %	11	0.00 %	6 / 385	AR
Eiffage	0.00 %	0.01 %	9	0.00 %	49	0.01 %	97 / 385	CDP
ELBIT SYSTEMS	0.00 %	0.00 %	0	0.00 %	47	0.00 %	91 / 385	PRE
Elco Hldgs	0.00 %		11	0.00 %	64	0.01 %	N / A	TC



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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Emerson Electric Co	0.01 %	0.05 %	8	0.00 %	106	0.00 %	232 / 385	PRE
Enka Insaat ve Sanayi AS	0.00 %		19	0.00 %	2,289	-0.00 %	N / A	TC
Equifax Inc	0.00 %	0.02 %	0	0.00 %	23	0.00 %	35 / 385	TC
Expeditors Intl of WA Inc	0.12 %	0.01 %	1,914	0.26 %	653	-0.14 %	352 / 385	CDP
Experian Plc	0.00 %	0.02 %	0	0.00 %	20	0.00 %	25 / 385	CDP
Fanuc Co	0.03 %	0.05 %	10	0.00 %	71	0.00 %	172 / 385	PRE
Far Eastern New Century Corporation	0.00 %	0.00 %	12	0.00 %	207	0.00 %	315 / 385	PRE
Fastenal Co	0.00 %	0.02 %	1	0.00 %	38	0.00 %	67 / 385	TC
FedEx Corp	0.01 %	0.06 %	52	0.01 %	239	0.00 %	322 / 385	PRE
Ferguson PLC	0.00 %	0.02 %	5	0.00 %	30	0.01 %	50 / 385	AR*
Ferrovial SA	0.00 %	0.01 %	4	0.00 %	60	0.00 %	147 / 385	CDP
Finning Intl Inc	0.00 %	0.00 %	3	0.00 %	30	0.00 %	49 / 385	PRE
FirstGroup Plc	0.00 %		27	0.00 %	281	0.00 %	N / A	CDP
Fischer, George AG Br	0.00 %		22	0.00 %	206	0.00 %	N / A	CDP
Flowserve Corp	0.00 %	0.01 %	6	0.00 %	90	0.00 %	199 / 385	PRE
Flughafen Wien AG	0.00 %		0	0.00 %	56	0.00 %	N / A	TC
Fluor Corp	0.00 %	0.01 %	4	0.00 %	12	0.01 %	8 / 385	PRE
Fortive Corp	0.00 %	0.02 %	1	0.00 %	56	0.00 %	128 / 385	TC
Fortune Brands Home & Security Inc	0.00 %	0.01 %	7	0.00 %	130	0.00 %	260 / 385	TC
Fraport AG	0.00 %	0.00 %	2	0.00 %	81	0.00 %	183 / 385	CDP
Freightways Ltd	0.00 %		2	0.00 %	105	0.00 %	N / A	TC
Fuji Electric Co Ltd	0.00 %	0.00 %	20	0.00 %	159	0.00 %	283 / 385	CDP
Furukawa Electric Co	0.00 %		6	0.00 %	168	0.00 %	N / A	CDP
G4S Plc	0.00 %	0.01 %	6	0.00 %	37	0.01 %	63 / 385	OTH
Galliford Try	0.04 %		160	0.02 %	43	0.13 %	N / A	PRE
GEA AG	0.00 %	0.01 %	3	0.00 %	66	0.00 %	164 / 385	TC
Geberit AG Reg	0.03 %	0.02 %	38	0.01 %	187	0.00 %	306 / 385	CDP*
Generac Holdings Inc	0.03 %		39	0.01 %	60	0.02 %	N / A	TC
General Dynamics	0.05 %	0.06 %	54	0.01 %	57	0.03 %	132 / 385	PRE
General Electric Co	0.02 %	0.33 %	23	0.00 %	74	0.01 %	176 / 385	CDP*
Grainger W.W. Inc	0.03 %	0.02 %	17	0.00 %	22	0.03 %	32 / 385	PRE
Groupe Eurotunnel SE	0.00 %	0.01 %	1	0.00 %	114	0.00 %	245 / 385	AR*
Grupo Aeroportuario del Pacifico, S.A.B. de	0.04 %	0.00 %	7	0.00 %	55	0.00 %	123 / 385	TC
Grupo Carso SAB de CV	0.00 %	0.00 %	0	0.00 %	69	0.00 %	168 / 385	TC
GWA Group Ltd	0.02 %	0.03 %	20	0.00 %	54	0.01 %	114 / 385	ENV*
Haitian International Holdings Ltd.	0.21 %	0.00 %	298	0.04 %	121	0.06 %	251 / 385	TC



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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Hankyu Hanshin Holdings	0.00 %	0.01 %	5	0.00 %	102	0.00 %	225 / 385	PRE
Hanwa Co	0.00 %		10	0.00 %	48	0.01 %	N / A	TC
Hertz Global Holdings Inc	0.00 %		7	0.00 %	20	0.01 %	N / A	PRE
Hino Motors	0.00 %	0.00 %	6	0.00 %	45	0.00 %	83 / 385	ENV*
Hitachi Construction Machinery	0.00 %	0.00 %	10	0.00 %	105	0.00 %	231 / 385	CDP
HOCHTIEF AG	0.00 %	0.00 %	17	0.00 %	101	0.00 %	221 / 385	CDP
Honeywell Intl Inc	0.14 %	0.11 %	286	0.04 %	140	0.04 %	270 / 385	CDP
HOSHIZAKI ELECTRIC CO LTD	0.00 %	0.00 %	1	0.00 %	105	0.00 %	228 / 385	TC
Hunt J.B. Transport Services	0.00 %	0.01 %	14	0.00 %	266	0.00 %	326 / 385	PRE
Huntington Ingalls Industries Inc.	0.00 %	0.01 %	4	0.00 %	80	0.00 %	182 / 385	TC
Hutchison Port Holdings Trust	0.00 %	0.00 %	28	0.00 %	980	-0.00 %	374 / 385	TC
Hyundai Eng & Const Co	0.00 %	0.00 %	5	0.00 %	59	0.00 %	143 / 385	CDP*
Hyundai Glovis Co Ltd	0.00 %	0.00 %	1	0.00 %	24	0.00 %	36 / 385	ENV*
IHI Corp	0.00 %	0.01 %	9	0.00 %	92	0.00 %	203 / 385	CDP
IHS Markit Ltd	0.00 %	0.02 %	0	0.00 %	27	0.00 %	42 / 385	TC
Illinois Tool Works Inc	0.04 %	0.05 %	46	0.01 %	97	0.01 %	213 / 385	ENV*
IMI	0.02 %	0.01 %	42	0.01 %	83	0.01 %	187 / 385	AR
Ingersoll-Rand Plc	0.26 %	0.03 %	704	0.09 %	117	0.15 %	247 / 385	PRE
Insperty Inc.	0.07 %		52	0.01 %	15	0.13 %	N / A	TC
International Consolidated Airlines Group SA	0.01 %	0.01 %	323	0.04 %	783	-0.03 %	358 / 385	CDP
Intertek Group PLC	0.00 %	0.01 %	1	0.00 %	48	0.00 %	94 / 385	AR*
IPH Limited	0.07 %	0.02 %	4	0.00 %	14	0.01 %	11 / 385	TC
ISS A/S	0.00 %	0.01 %	2	0.00 %	17	0.00 %	18 / 385	ENV
Itochu Corp	0.00 %	0.03 %	51	0.01 %	179	0.00 %	301 / 385	TC
Jacobs Engineering Group Inc	0.00 %	0.01 %	5	0.00 %	22	0.01 %	31 / 385	TC
Jaiprakash Associates Ltd	0.00 %		1,060	0.14 %	4,037	-0.13 %	N / A	AR*
Japan Airlines Co Ltd	0.01 %	0.00 %	109	0.01 %	551	-0.01 %	349 / 385	AR*
Japan Airport Terminal Co	0.00 %	0.00 %	0	0.00 %	59	0.00 %	145 / 385	TC
Jardine Matheson Hldgs Ltd	0.03 %	0.02 %	44	0.01 %	49	0.03 %	96 / 385	TC
Jardine Strategic Hldgs	0.00 %	0.01 %	3	0.00 %	52	0.00 %	104 / 385	TC
JetBlue Airways Corp	0.00 %		32	0.00 %	867	-0.00 %	N / A	PRE
JGC Corp	0.00 %	0.00 %	5	0.00 %	63	0.00 %	157 / 385	PRE
Joy Global, Inc.	0.00 %		2	0.00 %	168	0.00 %	N / A	TC
JTEKT Corp	0.00 %	0.00 %	17	0.00 %	165	0.00 %	287 / 385	CDP
Kajima Corp	0.00 %	0.01 %	3	0.00 %	43	0.00 %	76 / 385	CDP*
Kamigumi Co	0.00 %	0.00 %	4	0.00 %	148	0.00 %	275 / 385	TC



S&P Dow Jones Indices  
ESG Analysis

# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Kanaden Corp	0.00 %		11	0.00 %	128	0.00 %	N / A	TC
Kansas City Southern Inc	0.03 %	0.01 %	142	0.02 %	431	-0.01 %	340 / 385	ENV
Kawasaki Heavy Industries	0.00 %	0.01 %	21	0.00 %	102	0.01 %	224 / 385	CDP
Kawasaki Kisen Kaisha	0.00 %		100	0.01 %	1,008	-0.01 %	N / A	CDP
Keihan Electric Railway Co	0.00 %	0.00 %	2	0.00 %	84	0.00 %	188 / 385	TC
Keikyu Corp	0.00 %	0.01 %	2	0.00 %	95	0.00 %	211 / 385	TC
Keio Corp	0.00 %	0.01 %	2	0.00 %	92	0.00 %	201 / 385	TC
Keisei Electric Railway Co	0.00 %	0.00 %	1	0.00 %	107	0.00 %	234 / 385	TC
Keppel Corp Ltd	0.00 %	0.01 %	29	0.00 %	396	-0.00 %	337 / 385	ENV*
Kimura Unity Co	0.00 %		3	0.00 %	46	0.00 %	N / A	TC
Kingspan Group Plc	0.11 %		158	0.02 %	75	0.06 %	N / A	CDP
Kintetsu Group Holdings Co Ltd	0.00 %	0.01 %	3	0.00 %	54	0.00 %	113 / 385	CDP
KION Group AG	0.03 %		91	0.01 %	112	0.02 %	N / A	TC
Koc Holding	0.00 %	0.00 %	27	0.00 %	220	0.00 %	319 / 385	TC
Komatsu	0.00 %	0.03 %	10	0.00 %	105	0.00 %	229 / 385	CDP
Kone Corp B	0.00 %	0.02 %	4	0.00 %	150	0.00 %	277 / 385	CDP
Koninklijke Philips Electronics NV (Royal	0.00 %	0.04 %	8	0.00 %	55	0.00 %	124 / 385	ENV*
Korean Air Lines Co	0.00 %	0.00 %	92	0.01 %	958	-0.01 %	372 / 385	ENV*
Kubota Corp	0.03 %	0.02 %	130	0.02 %	156	0.02 %	282 / 385	CDP
KUEHNE & NAGEL INTL AG-REG	0.13 %	0.01 %	137	0.02 %	29	0.17 %	47 / 385	CDP
Kurita Water Industries	0.00 %	0.00 %	5	0.00 %	172	0.00 %	292 / 385	CDP
Legrand Promesses	0.13 %	0.02 %	111	0.01 %	70	0.05 %	169 / 385	CDP
Leonardo S.p.a.	0.00 %	0.01 %	8	0.00 %	58	0.00 %	139 / 385	ENV*
LG Corp	0.00 %	0.01 %	1	0.00 %	27	0.00 %	41 / 385	TC
LIXIL Group Corporation	0.00 %	0.01 %	28	0.00 %	177	0.00 %	298 / 385	CDP
LS Corp	0.00 %		13	0.00 %	106	0.00 %	N / A	TC
Mabuchi Motor Co	0.00 %	0.00 %	2	0.00 %	185	0.00 %	304 / 385	PRE
MACA Limited	0.01 %	0.01 %	85	0.01 %	178	0.01 %	299 / 385	TC
Macquarie Altas Roads Limited	0.34 %	0.08 %	1	0.00 %	55	0.00 %	118 / 385	TC
Macquarie Infrastructure Corp	0.00 %	0.01 %	1	0.00 %	125	0.00 %	255 / 385	TC
Maeda Corp	0.04 %		236	0.03 %	84	0.08 %	N / A	TC
Mainfreight Limited	0.00 %		5	0.00 %	58	0.00 %	N / A	TC
Makita Corp	0.00 %	0.01 %	1	0.00 %	71	0.00 %	170 / 385	ENV*
Malaysia Airports Holdings Bhd	0.23 %	0.00 %	932	0.12 %	290	0.00 %	330 / 385	ENV*
ManpowerGroup	0.03 %	0.01 %	10	0.00 %	4	0.11 %	1 / 385	PRE
Marubeni Corp	0.00 %	0.01 %	158	0.02 %	164	0.02 %	286 / 385	PRE



S&P Dow Jones Indices  
ESG Analysis

# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mnn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Masco Corp	0.00 %	0.01 %	6	0.00 %	94	0.00 %	209 / 385	PRE
Masonite International Corp	0.01 %		74	0.01 %	203	0.00 %	N / A	TC
Materion Corporation	0.01 %		102	0.01 %	309	-0.00 %	N / A	TC
McMillan Shakespeare Limited	0.00 %	0.03 %	0	0.00 %	9	0.00 %	5 / 385	ENV*
Meggitt	0.00 %	0.01 %	3	0.00 %	61	0.00 %	152 / 385	CDP
Metallurgical Corporation of China Ltd	0.00 %		2	0.00 %	81	0.00 %	N / A	TC
Metso Oyj	0.00 %	0.00 %	6	0.00 %	96	0.00 %	212 / 385	ENV
Middleby Corp The	0.00 %	0.01 %	0	0.00 %	113	0.00 %	243 / 385	TC
Minebea Mitsumi Co	0.00 %	0.01 %	5	0.00 %	167	0.00 %	288 / 385	ENV*
Mineral Resources	0.14 %	0.05 %	505	0.07 %	178	0.05 %	300 / 385	TC
MISC Bhd	0.00 %	0.00 %	8	0.00 %	1,638	-0.00 %	382 / 385	ENV
Misumi Group Inc	0.00 %	0.01 %	1	0.00 %	112	0.00 %	241 / 385	TC
Mitsubishi Corp	0.10 %	0.04 %	731	0.10 %	107	0.18 %	235 / 385	PRE
Mitsubishi Electric Corp	0.00 %	0.03 %	17	0.00 %	85	0.01 %	192 / 385	CDP
Mitsubishi Heavy Industries	0.00 %	0.02 %	22	0.00 %	93	0.01 %	205 / 385	CDP
Mitsubishi Logistics Corp	0.00 %	0.00 %	1	0.00 %	55	0.00 %	115 / 385	ENV*
Mitsui & Co	0.01 %	0.03 %	109	0.01 %	331	-0.00 %	331 / 385	TC
Mitsui OSK Lines Ltd	0.00 %	0.00 %	91	0.01 %	1,030	-0.01 %	377 / 385	CDP
Monadelphous Group Ltd	0.03 %	0.04 %	12	0.00 %	12	0.04 %	7 / 385	PRE
MRC Global Inc	0.00 %		1	0.00 %	38	0.00 %	N / A	TC
MTR Corporation Ltd.	0.00 %	0.01 %	4	0.00 %	203	0.00 %	314 / 385	PRE
MTU Aero Engines AG	0.04 %		44	0.01 %	37	0.04 %	N / A	CDP
Murphy USA Inc	0.00 %		6	0.00 %	49	0.00 %	N / A	TC
Nabtesco Corp	0.00 %	0.00 %	3	0.00 %	101	0.00 %	223 / 385	CDP
Nagoya Railroad Co	0.00 %	0.01 %	5	0.00 %	106	0.00 %	233 / 385	TC
NCI Building Systems Inc	0.04 %		318	0.04 %	157	0.04 %	N / A	TC
New Flyer Industries Inc.	0.04 %		41	0.01 %	48	0.03 %	N / A	TC
NGK Insulators	0.00 %	0.01 %	3	0.00 %	201	0.00 %	313 / 385	ENV*
Nidec Corp	0.00 %	0.03 %	4	0.00 %	180	0.00 %	302 / 385	CDP
Nielsen Holdings plc	0.00 %	0.02 %	0	0.00 %	8	0.00 %	4 / 385	ENV*
Nippon Express Co	0.00 %	0.01 %	14	0.00 %	66	0.01 %	165 / 385	CDP
Nippon Yusen KK	0.00 %	0.00 %	272	0.04 %	743	-0.02 %	357 / 385	CDP
Noble Group Inc	0.05 %		1,549	0.21 %	25	2.35 %	N / A	PRE
Norfolk Southern Corp	0.01 %	0.04 %	25	0.00 %	407	-0.00 %	338 / 385	CDP
Northrop Grumman Corp	0.01 %	0.05 %	6	0.00 %	45	0.00 %	85 / 385	PRE
NOW Inc.	0.00 %		9	0.00 %	35	0.01 %	N / A	TC



S&P Dow Jones Indices  
ESG Analysis

# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mnn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
NSK	0.00 %	0.01 %	13	0.00 %	216	0.00 %	317 / 385	CDP
NWS Holdings Ltd.	0.00 %	0.00 %	3	0.00 %	121	0.00 %	250 / 385	ENV
Obayashi Corp	0.00 %	0.01 %	6	0.00 %	50	0.00 %	98 / 385	CDP
Odakyu Electric Railway Co	0.00 %	0.01 %	2	0.00 %	89	0.00 %	197 / 385	TC
On Assignment Inc	0.05 %		24	0.00 %	15	0.06 %	N / A	TC
Orient Overseas (International) Ltd.	0.00 %		31	0.00 %	688	-0.00 %	N / A	ENV
Oshkosh Corporation	0.00 %		4	0.00 %	118	0.00 %	N / A	OTH*
OSRAM Licht AG	0.00 %	0.01 %	8	0.00 %	148	0.00 %	274 / 385	AR
Owens Corning Inc	0.00 %		6	0.00 %	581	-0.00 %	N / A	CDP
PACCAR Inc	0.00 %	0.03 %	6	0.00 %	48	0.00 %	95 / 385	PRE
Park 24 Co	0.00 %	0.00 %	1	0.00 %	34	0.00 %	58 / 385	TC
Parker-Hannifin Corp	0.00 %	0.03 %	14	0.00 %	154	0.00 %	280 / 385	PRE
Pentair PLC	0.00 %	0.01 %	7	0.00 %	117	0.00 %	246 / 385	TC
PMP Ltd	0.11 %		1,635	0.22 %	166	0.18 %	N / A	AR*
POSCO DAEWOO Co	0.00 %	0.00 %	4	0.00 %	51	0.00 %	101 / 385	TC
Programd Maintenance Services	0.06 %	0.01 %	477	0.06 %	57	0.28 %	129 / 385	TC
Prismian SpA	0.00 %	0.01 %	19	0.00 %	258	0.00 %	325 / 385	PRE
Qantas Airways Ltd	0.45 %	0.23 %	25,160	3.37 %	720	-1.99 %	355 / 385	PRE
Quanta Services Inc	0.05 %		160	0.02 %	65	0.08 %	N / A	TC
Qube Holdings Ltd	0.21 %	0.10 %	176	0.02 %	58	0.10 %	142 / 385	TC
Randstad Hldgs NV	0.00 %	0.01 %	1	0.00 %	6	0.01 %	3 / 385	AR*
Raytheon Co	0.01 %	0.06 %	5	0.00 %	29	0.01 %	48 / 385	CDP
RCR Tomlinson Limited	0.01 %	0.01 %	21	0.00 %	21	0.04 %	30 / 385	TC
Recruit Holdings Co Ltd	0.00 %	0.02 %	1	0.00 %	26	0.00 %	38 / 385	PRE
Rentokil Initial	0.00 %		0	0.00 %	72	0.00 %	N / A	ENV*
Republic Services Inc	0.02 %	0.02 %	295	0.04 %	1,240	-0.03 %	381 / 385	CDP
Rexel SA	0.00 %	0.01 %	2	0.00 %	13	0.01 %	9 / 385	AR*
RMR Group	0.00 %		0	0.00 %	17	0.00 %	N / A	TC
Robert Half Intl Inc	0.00 %	0.01 %	1	0.00 %	15	0.00 %	13 / 385	TC
Rockwell Automation Inc	0.00 %	0.02 %	2	0.00 %	51	0.00 %	103 / 385	CDP*
Rockwell Collins	0.00 %	0.02 %	2	0.00 %	32	0.00 %	52 / 385	PRE
Rolls-Royce Holdings Plc	0.17 %	0.02 %	311	0.04 %	44	0.24 %	80 / 385	PRE
Roper Technologies, Inc	0.00 %	0.03 %	1	0.00 %	58	0.00 %	137 / 385	TC
Royal Mail plc	0.00 %	0.01 %	10	0.00 %	45	0.01 %	82 / 385	CDP
Ryanair Holdings Plc	0.03 %	0.00 %	343	0.05 %	953	-0.03 %	371 / 385	AR*
Ryder System Inc	0.00 %		3	0.00 %	117	0.00 %	N / A	PRE





S&P Dow Jones Indices  
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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
SAGEM SA Prf	0.06 %	0.03 %	52	0.01 %	43	0.04 %	77 / 385	AR*
Saint-Gobain, Cie de	0.01 %	0.03 %	98	0.01 %	279	0.00 %	328 / 385	AR
San Miguel Corp	0.00 %		92	0.01 %	893	-0.01 %	N / A	AR*
Sandvik AB	0.00 %	0.02 %	10	0.00 %	136	0.00 %	266 / 385	ENV*
SATS Ltd	0.00 %	0.00 %	0	0.00 %	59	0.00 %	144 / 385	TC
Schindler-Hldg AG Br	0.13 %	0.01 %	334	0.04 %	152	0.04 %	279 / 385	CDP
Schneider Electric SE	0.07 %	0.05 %	95	0.01 %	60	0.05 %	148 / 385	AR*
Secom Co	0.00 %	0.02 %	0	0.00 %	13	0.00 %	10 / 385	CDP
Securitas AB B	0.00 %	0.01 %	2	0.00 %	16	0.00 %	14 / 385	ENV*
Seek Ltd	0.01 %	0.18 %	1	0.00 %	15	0.00 %	12 / 385	PRE
Seibu holding Inc	0.02 %	0.00 %	50	0.01 %	93	0.01 %	204 / 385	TC
Sembcorp Industries	0.00 %	0.00 %	109	0.01 %	849	-0.01 %	367 / 385	AR*
Sensata Technologies Holding NV	0.14 %	0.01 %	125	0.02 %	62	0.06 %	154 / 385	TC
Seven Group Holdings Limited	0.04 %	0.03 %	63	0.01 %	45	0.05 %	84 / 385	TC
SG Fleet Group Limited	0.10 %	0.01 %	17	0.00 %	22	0.03 %	34 / 385	TC
SGS AG	0.07 %	0.01 %	37	0.00 %	40	0.03 %	68 / 385	OTH
Shanghai Electric Group Co Ltd	0.00 %	0.00 %	2	0.00 %	87	0.00 %	195 / 385	TC
Shimizu Corp	0.00 %	0.01 %	7	0.00 %	48	0.00 %	93 / 385	CDP
SIA Engineering Co	0.00 %		1	0.00 %	59	0.00 %	N / A	TC
Siemens AG	0.01 %	0.13 %	16	0.00 %	54	0.01 %	110 / 385	ENV*
Sime Darby Bhd	0.00 %	0.01 %	2	0.00 %	201	0.00 %	311 / 385	CDP
Singapore Airlines	0.00 %	0.00 %	200	0.03 %	915	-0.02 %	369 / 385	ENV*
Sinopec Engineering Group Ltd	0.00 %	0.00 %	4	0.00 %	29	0.01 %	46 / 385	TC
SK Holdings Co Ltd	0.00 %	0.01 %	0	0.00 %	18	0.00 %	23 / 385	CDP
SK Networks Co Ltd	0.00 %	0.00 %	9	0.00 %	34	0.01 %	55 / 385	TC
Skanska AB	0.00 %	0.01 %	11	0.00 %	53	0.01 %	107 / 385	ENV*
SKF AB	0.00 %	0.01 %	15	0.00 %	150	0.00 %	276 / 385	AR
Smartgroup Corporation Ltd	0.08 %	0.02 %	18	0.00 %	55	0.01 %	121 / 385	TC
SMC Corp	0.00 %	0.02 %	3	0.00 %	146	0.00 %	273 / 385	TC
Smith A.O. Corp	0.00 %	0.01 %	3	0.00 %	127	0.00 %	257 / 385	TC
Smiths Group	0.00 %	0.01 %	3	0.00 %	58	0.00 %	138 / 385	ENV*
Snap On Inc	0.00 %	0.01 %	7	0.00 %	176	0.00 %	297 / 385	TC
SNC - Lavalin Group Inc	0.00 %	0.01 %	2	0.00 %	28	0.00 %	43 / 385	PRE
Sohgo Security Services Co	0.00 %	0.00 %	1	0.00 %	18	0.00 %	21 / 385	PRE
Sojitz Corp	0.00 %		23	0.00 %	120	0.00 %	N / A	TC
Southwest Airlines Co	0.01 %	0.01 %	104	0.01 %	740	-0.01 %	356 / 385	PRE





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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mnn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Spicers Ltd. (Australia)	0.01 %		183	0.02 %	39	0.16 %	N / A	TC
Spirax-Sarco Engineering	0.03 %		25	0.00 %	92	0.01 %	N / A	CDP
Spotless Group Holdings Ltd	0.01 %	0.04 %	18	0.00 %	33	0.02 %	54 / 385	TC
Stanley Black & Decker	0.00 %	0.02 %	16	0.00 %	163	0.00 %	285 / 385	PRE
STEF-TFE	0.00 %		7	0.00 %	104	0.00 %	N / A	PRE
Stericycle Inc	0.00 %	0.01 %	5	0.00 %	172	0.00 %	290 / 385	TC
Sumitomo Corp	0.06 %	0.02 %	65	0.01 %	16	0.15 %	17 / 385	ENV*
Sumitomo Heavy Industries	0.00 %	0.00 %	12	0.00 %	145	0.00 %	272 / 385	CDP
Sydney Airport	0.32 %	0.49 %	83	0.01 %	81	0.03 %	185 / 385	ENV*
Taisei Corp	0.00 %	0.01 %	5	0.00 %	50	0.00 %	100 / 385	CDP
Taiwan-Sogo Shingkong Secs	0.00 %		1	0.00 %	20	0.00 %	N / A	TC
Thales	0.00 %	0.01 %	3	0.00 %	38	0.00 %	66 / 385	PRE
THK Co	0.00 %	0.00 %	8	0.00 %	187	0.00 %	308 / 385	CDP
Tobu Railway Co	0.00 %	0.01 %	3	0.00 %	88	0.00 %	196 / 385	TC
Tokyu Corp	0.00 %	0.01 %	4	0.00 %	73	0.00 %	175 / 385	TC
Tomra Systems ASA	0.03 %		68	0.01 %	117	0.01 %	N / A	CDP
Top Glove Corp Bhd	0.28 %		298	0.04 %	56	0.17 %	N / A	TC
Toppan Printing Co	0.00 %	0.01 %	17	0.00 %	142	0.00 %	271 / 385	CDP
Toshiba Corp	0.00 %	0.01 %	25	0.00 %	100	0.01 %	219 / 385	CDP
Toto	0.00 %	0.01 %	4	0.00 %	108	0.00 %	236 / 385	CDP
Tox Free Solutions Limited	0.00 %	0.01 %	9	0.00 %	172	0.00 %	295 / 385	TC
Toyota Tsusho Corp	0.00 %	0.01 %	218	0.03 %	190	0.02 %	310 / 385	TC
TransDigm Group	0.00 %	0.01 %	1	0.00 %	51	0.00 %	102 / 385	TC
Transurban Group NPV	0.38 %	0.79 %	76	0.01 %	68	0.03 %	167 / 385	ENV*
Travis Perkins	0.00 %	0.01 %	5	0.00 %	33	0.01 %	53 / 385	AR
Trinity Industries Inc	0.00 %		8	0.00 %	129	0.00 %	N / A	TC
Turkiye Hava Yollari A O	0.00 %	0.00 %	269	0.04 %	833	-0.02 %	365 / 385	TC
Union Pacific Corp	0.01 %	0.11 %	28	0.00 %	414	-0.00 %	339 / 385	OTH
United Continental Holding Inc	0.05 %	0.01 %	2,166	0.29 %	808	-0.18 %	360 / 385	AR*
United Parcel Service Inc	0.12 %	0.09 %	503	0.07 %	183	0.04 %	303 / 385	OTH
United Rentals Inc	0.00 %	0.01 %	1	0.00 %	27	0.00 %	39 / 385	TC
United Technologies Corp	0.07 %	0.11 %	107	0.01 %	71	0.05 %	171 / 385	CDP*
United Tractors Tbk PT	0.00 %	0.00 %	1	0.00 %	131	0.00 %	261 / 385	PRE
Univar Inc	0.01 %		40	0.01 %	41	0.03 %	N / A	TC
Universal Forest Products	0.04 %		361	0.05 %	181	0.03 %	N / A	TC
Verisk Analytics Inc	0.00 %	0.02 %	0	0.00 %	17	0.00 %	19 / 385	TC



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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Vestas Wind Systems AS	0.00 %	0.02 %	3	0.00 %	53	0.00 %	105 / 385	AR
Vinci	0.01 %	0.05 %	14	0.00 %	73	0.01 %	174 / 385	AR*
Virgin Australia Holdings Ltd	0.00 %		119	0.02 %	708	-0.01 %	N / A	PRE
Volvo AB	0.01 %	0.03 %	12	0.00 %	53	0.01 %	109 / 385	ENV
Wabco Holdings Inc	0.00 %	0.01 %	6	0.00 %	124	0.00 %	254 / 385	TC
Wabtec	0.00 %	0.01 %	5	0.00 %	121	0.00 %	252 / 385	TC
Wartsila Oyj	0.03 %	0.01 %	36	0.00 %	55	0.02 %	117 / 385	CDP
Waste Connections, Inc.	0.00 %	0.02 %	2	0.00 %	172	0.00 %	291 / 385	TC
Waste Management Inc	0.04 %	0.04 %	556	0.07 %	943	-0.05 %	370 / 385	CDP
Weichai Power Co Ltd	0.00 %	0.00 %	6	0.00 %	134	0.00 %	264 / 385	TC
Weir Group	0.00 %	0.01 %	3	0.00 %	94	0.00 %	208 / 385	PRE
West Japan Railway	0.00 %	0.01 %	15	0.00 %	187	0.00 %	307 / 385	CDP
West Pharmaceutical Services Inc	0.04 %		58	0.01 %	167	0.01 %	N / A	TC
Xylem Inc	0.04 %	0.01 %	53	0.01 %	78	0.02 %	180 / 385	PRE
Yamato Holdings Co Ltd	0.00 %	0.01 %	6	0.00 %	71	0.00 %	173 / 385	PRE
Yangzijiang Shipbuilding Hldgs Ltd	0.00 %	0.00 %	3	0.00 %	74	0.00 %	177 / 385	TC
Zardoya-Otis SA	0.00 %	0.00 %	2	0.00 %	160	0.00 %	284 / 385	TC
Zodiac Aerospace	0.00 %	0.01 %	1	0.00 %	54	0.00 %	112 / 385	AR*
<b>Information Technology</b>	<b>9.16 %</b>	<b>8.58 %</b>	<b>5,255</b>	<b>0.70 %</b>	<b>56</b>	<b>3.16 %</b>		
Accenture plc	0.13 %	0.09 %	42	0.01 %	21	0.07 %	94 / 237	OTH
Acer Inc	0.00 %	0.00 %	1	0.00 %	9	0.01 %	5 / 237	ENV*
Activision Blizzard Inc	0.04 %	0.04 %	2	0.00 %	12	0.01 %	23 / 237	TC
Adobe Systems Inc	0.04 %	0.08 %	1	0.00 %	15	0.00 %	48 / 237	CDP*
Advanced Semiconductor Engineering	0.00 %	0.01 %	3	0.00 %	159	0.00 %	214 / 237	PRE
Advantech Co Ltd	0.04 %	0.00 %	18	0.00 %	49	0.01 %	159 / 237	TC
Advantest Corp	0.05 %		39	0.01 %	57	0.02 %	N / A	CDP
Akamai Technologies Inc	0.00 %	0.01 %	1	0.00 %	40	0.00 %	143 / 237	PRE
Alliance Data Systems Corp	0.00 %	0.02 %	1	0.00 %	13	0.00 %	39 / 237	CDP
Alphabet Inc	0.43 %	0.63 %	50	0.01 %	25	0.07 %	104 / 237	CDP
Alps Electric Co	0.00 %	0.01 %	3	0.00 %	62	0.00 %	169 / 237	AR*
Altaba Inc.	0.00 %	0.05 %	1	0.00 %	41	0.00 %	145 / 237	CDP
Altium Limited	0.04 %	0.03 %	2	0.00 %	12	0.01 %	32 / 237	TC
Altran Technologies	0.05 %		18	0.00 %	12	0.06 %	N / A	ENV*
Amadeus IT Group SA	0.00 %	0.03 %	0	0.00 %	17	0.00 %	68 / 237	TC
Amdocs Ltd	0.03 %		8	0.00 %	21	0.01 %	N / A	PRE



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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Amphenol Corp A	0.06 %	0.03 %	64	0.01 %	109	0.01 %	203 / 237	TC
Analog Devices Inc	0.01 %	0.04 %	1	0.00 %	63	0.00 %	172 / 237	OTH
ANSYS Inc	0.43 %	0.01 %	19	0.00 %	12	0.06 %	24 / 237	TC
Apple Inc.	0.14 %	0.94 %	23	0.00 %	17	0.05 %	65 / 237	ENV*
Applied Materials Inc	0.01 %	0.05 %	3	0.00 %	48	0.00 %	156 / 237	PRE
Arrow Electronics Inc	0.00 %	0.01 %	17	0.00 %	29	0.02 %	117 / 237	TC
ASM Pacific Technology Ltd.	0.00 %	0.00 %	2	0.00 %	62	0.00 %	170 / 237	TC
ASML Holding NV	0.03 %	0.06 %	4	0.00 %	33	0.00 %	127 / 237	ENV*
Asustek Computer Inc	0.00 %	0.01 %	2	0.00 %	31	0.00 %	126 / 237	CDP
Atea ASA	0.00 %		2	0.00 %	27	0.00 %	N / A	TC
AtoS SE	0.00 %	0.01 %	2	0.00 %	13	0.01 %	38 / 237	AR
AU Optronics Corp	0.00 %	0.00 %	43	0.01 %	246	0.00 %	229 / 237	ENV*
Auto Trader Group Plc	0.00 %	0.01 %	0	0.00 %	9	0.00 %	6 / 237	AR*
Autodesk Inc	0.00 %	0.02 %	0	0.00 %	7	0.00 %	2 / 237	CDP
Automatic Data Processing	0.01 %	0.06 %	1	0.00 %	17	0.00 %	78 / 237	PRE
Avnet Inc	0.00 %	0.01 %	12	0.00 %	18	0.02 %	87 / 237	PRE
Baidu.com ADR	0.14 %	0.06 %	15	0.00 %	16	0.04 %	58 / 237	TC
BE Semiconductor NV	0.05 %		23	0.00 %	48	0.02 %	N / A	PRE
BlackBerry Limited	0.00 %	0.00 %	1	0.00 %	29	0.00 %	118 / 237	CDP
Broadcom Limited	0.00 %	0.11 %	1	0.00 %	105	0.00 %	200 / 237	TC
Broadridge Financial Solutions Inc.	0.00 %	0.01 %	1	0.00 %	17	0.00 %	82 / 237	CDP
Brother Industries	0.00 %	0.01 %	14	0.00 %	82	0.01 %	187 / 237	ENV*
CA Inc	0.00 %	0.01 %	1	0.00 %	19	0.00 %	89 / 237	CDP*
Cadence Design Systems Inc	0.04 %	0.01 %	3	0.00 %	12	0.01 %	27 / 237	TC
Canon Inc	0.03 %	0.04 %	58	0.01 %	76	0.02 %	181 / 237	PRE
Cap Gemini SE	0.00 %	0.02 %	2	0.00 %	16	0.00 %	61 / 237	OTH
Carsales.com Ltd	0.02 %	0.08 %	3	0.00 %	39	0.00 %	141 / 237	TC
CDK Global Inc	0.13 %	0.01 %	19	0.00 %	18	0.04 %	88 / 237	TC
CDW Corp/DE	0.00 %	0.01 %	4	0.00 %	17	0.01 %	71 / 237	TC
CGI Group Inc.	0.00 %	0.01 %	1	0.00 %	14	0.00 %	43 / 237	PRE
Check Point Software (US)	0.06 %	0.02 %	3	0.00 %	15	0.01 %	47 / 237	TC
Cielo SA	0.00 %	0.01 %	0	0.00 %	9	0.00 %	8 / 237	CDP
Cisco Systems Inc	0.05 %	0.21 %	17	0.00 %	31	0.02 %	123 / 237	ENV*
Citrix Systems Inc	0.00 %	0.02 %	0	0.00 %	12	0.00 %	22 / 237	TC
Cognizant Tech Solutions Corp	0.04 %	0.04 %	12	0.00 %	25	0.02 %	106 / 237	CDP*
Compal Electronics Inc	0.00 %	0.00 %	5	0.00 %	21	0.01 %	93 / 237	CDP



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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Computershare Ltd	0.31 %	0.23 %	27	0.00 %	10	0.11 %	13 / 237	TC
Constellation Software	0.00 %	0.01 %	1	0.00 %	23	0.00 %	100 / 237	TC
CoreLogic Inc.	0.04 %		13	0.00 %	17	0.03 %	N / A	TC
Corning Inc	0.01 %	0.03 %	15	0.00 %	173	0.00 %	217 / 237	PRE
Costar Group Inc	0.00 %	0.01 %	0	0.00 %	48	0.00 %	155 / 237	TC
Dassault Systemes SA	0.00 %	0.01 %	0	0.00 %	16	0.00 %	62 / 237	AR*
Delta Electronic Ind	0.13 %	0.01 %	159	0.02 %	74	0.07 %	180 / 237	CDP
DXC Technology Company	0.09 %	0.01 %	66	0.01 %	30	0.08 %	122 / 237	ENV
eBay Inc.	0.05 %	0.04 %	11	0.00 %	24	0.02 %	103 / 237	CDP
Electronic Arts	0.00 %	0.03 %	0	0.00 %	18	0.00 %	84 / 237	TC
Energys	0.06 %		216	0.03 %	183	0.02 %	N / A	TC
Ericsson L.M. Telefonaktie	0.00 %	0.03 %	8	0.00 %	47	0.01 %	154 / 237	ENV*
F5 Networks Inc	0.00 %	0.01 %	0	0.00 %	11	0.00 %	16 / 237	TC
Facebook Inc	0.27 %	0.41 %	14	0.00 %	22	0.02 %	95 / 237	ENV*
Fidelity National Information	0.00 %	0.03 %	1	0.00 %	14	0.00 %	45 / 237	TC
First Data Corp.	0.00 %	0.01 %	0	0.00 %	35	0.00 %	132 / 237	TC
First Solar Inc	0.00 %		2	0.00 %	105	0.00 %	N / A	CDP
Fiserv Inc	0.00 %	0.03 %	0	0.00 %	14	0.00 %	41 / 237	TC
FleetCor Technologies Inc	0.00 %	0.02 %	0	0.00 %	10	0.00 %	11 / 237	TC
Flex Ltd	0.02 %	0.01 %	117	0.02 %	51	0.08 %	162 / 237	PRE
FLIR Systems Inc	0.00 %	0.01 %	2	0.00 %	40	0.00 %	142 / 237	TC
Fortinet Inc	0.00 %	0.01 %	0	0.00 %	20	0.00 %	91 / 237	TC
Fujifilm Holdings Corp	0.00 %	0.02 %	11	0.00 %	88	0.00 %	191 / 237	CDP*
Fujitsu	0.01 %	0.01 %	30	0.00 %	33	0.03 %	128 / 237	ENV*
Gartner Inc	0.00 %	0.01 %	1	0.00 %	44	0.00 %	149 / 237	TC
GBST Holdings Ltd	0.09 %	0.01 %	20	0.00 %	12	0.06 %	31 / 237	TC
Gemalto NV	0.00 %	0.01 %	3	0.00 %	49	0.00 %	158 / 237	CDP
Global Payments Inc	0.00 %	0.02 %	0	0.00 %	10	0.00 %	12 / 237	TC
GTN Ltd	0.12 %		34	0.00 %	29	0.04 %	N / A	TC
Hamamatsu Photonic	0.00 %	0.01 %	2	0.00 %	102	0.00 %	198 / 237	PRE
Harris Corp	0.00 %	0.02 %	3	0.00 %	36	0.00 %	134 / 237	TC
HCL Technologies Ltd	0.00 %	0.01 %	0	0.00 %	27	0.00 %	114 / 237	ENV*
Henry Jack & Associates	0.13 %		13	0.00 %	22	0.02 %	N / A	TC
Hewlett Packard Enterprise Co	0.01 %	0.05 %	13	0.00 %	29	0.02 %	119 / 237	ENV*
Hexagon AB	0.00 %	0.01 %	1	0.00 %	71	0.00 %	177 / 237	TC
Hirose Electric Co	0.00 %	0.01 %	1	0.00 %	60	0.00 %	168 / 237	ENV*



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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Hitachi	0.01 %	0.03 %	67	0.01 %	86	0.02 %	190 / 237	CDP
Hitachi High-Technologies	0.00 %	0.00 %	2	0.00 %	26	0.00 %	112 / 237	CDP
Hon Hai Precision Industry Co Ltd	0.02 %	0.06 %	212	0.03 %	89	0.07 %	192 / 237	AR*
HP Inc	0.01 %	0.04 %	45	0.01 %	31	0.05 %	125 / 237	CDP
Infineon Technologies AG	0.00 %	0.03 %	5	0.00 %	116	0.00 %	206 / 237	AR*
Infomedia Ltd	0.00 %	0.01 %	0	0.00 %	14	0.00 %	42 / 237	TC
Infosys Ltd	0.04 %	0.04 %	11	0.00 %	38	0.01 %	139 / 237	CDP*
Ingenico Group	0.00 %	0.01 %	0	0.00 %	8	0.00 %	3 / 237	AR*
Innolux Corp	0.00 %	0.00 %	84	0.01 %	238	0.00 %	228 / 237	ENV*
Intel Corp	0.02 %	0.21 %	12	0.00 %	54	0.01 %	165 / 237	ENV*
Intl Business Machines Corp	0.02 %	0.19 %	10	0.00 %	26	0.01 %	109 / 237	ENV
Intuit Inc	0.01 %	0.03 %	0	0.00 %	11	0.00 %	15 / 237	CDP
Inventec Corp	0.00 %	0.00 %	1	0.00 %	25	0.00 %	107 / 237	CDP
Iress Limited	0.00 %	0.05 %	1	0.00 %	17	0.00 %	75 / 237	TC
Itochu Techno-Solutions Corp	0.04 %		66	0.01 %	54	0.04 %	N / A	TC
Jabil Inc	0.00 %		7	0.00 %	76	0.00 %	N / A	PRE
Juniper Networks Inc	0.00 %	0.01 %	3	0.00 %	35	0.00 %	131 / 237	CDP*
Kakaku.com Inc	0.00 %	0.00 %	0	0.00 %	17	0.00 %	66 / 237	TC
Keyence Corp	0.03 %	0.05 %	5	0.00 %	76	0.00 %	183 / 237	TC
Keysight Technologies Inc	0.00 %		0	0.00 %	40	0.00 %	N / A	PRE
Kingboard Chemical Holdings Ltd.	0.00 %		7	0.00 %	163	0.00 %	N / A	TC
KLA-Tencor Corporation	0.00 %	0.02 %	1	0.00 %	44	0.00 %	148 / 237	PRE
Konami Holdings Cor	0.00 %	0.00 %	1	0.00 %	46	0.00 %	152 / 237	TC
KONICA MINOLTA INC	0.00 %	0.00 %	15	0.00 %	79	0.01 %	185 / 237	CDP
Kyocera Corp	0.00 %	0.02 %	11	0.00 %	218	0.00 %	224 / 237	OTH
Lam Research Corp	0.01 %	0.03 %	6	0.00 %	114	0.00 %	205 / 237	TC
Legend Holdings Corp.	0.00 %		9	0.00 %	43	0.01 %	N / A	TC
Leidos Holdings Inc	0.00 %		0	0.00 %	16	0.00 %	N / A	CDP
Lenovo Group Ltd.	0.00 %	0.01 %	4	0.00 %	19	0.01 %	90 / 237	CDP
LG Display Co Ltd	0.00 %	0.01 %	54	0.01 %	235	0.00 %	227 / 237	PRE
Link Administration Holdings Limited	0.19 %	0.09 %	25	0.00 %	16	0.06 %	63 / 237	ENV*
Lite-On Technology Corp	0.00 %	0.00 %	3	0.00 %	71	0.00 %	176 / 237	PRE
Logitech International SA	0.00 %		3	0.00 %	54	0.00 %	N / A	TC
LOGMEIN INC	0.00 %		0	0.00 %	16	0.00 %	N / A	TC
Loomis AB B	0.04 %		21	0.00 %	20	0.04 %	N / A	TC
Lumentum Holdings Inc	0.06 %		18	0.00 %	35	0.02 %	N / A	TC



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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Marvell Technology Group Ltd	0.00 %	0.01 %	4	0.00 %	49	0.00 %	161 / 237	CDP
Mastercard Inc	0.32 %	0.13 %	7	0.00 %	7	0.04 %	1 / 237	PRE
MAXIM INTEGRATED	0.00 %	0.02 %	5	0.00 %	179	0.00 %	220 / 237	PRE
Mediatek Inc	0.07 %	0.01 %	215	0.03 %	110	0.05 %	204 / 237	TC
Mercadolibre inc	0.19 %	0.01 %	8	0.00 %	16	0.02 %	54 / 237	TC
Microchip Technology Inc	0.04 %	0.02 %	31	0.00 %	172	0.00 %	215 / 237	PRE
Micron Technology Inc	0.01 %	0.04 %	12	0.00 %	155	0.00 %	213 / 237	PRE
Microsoft Corp	0.74 %	0.60 %	112	0.01 %	24	0.17 %	102 / 237	CDP
Mixi Inc	0.00 %	0.00 %	0	0.00 %	13	0.00 %	37 / 237	TC
Mobileye NV	0.00 %	0.01 %	0	0.00 %	12	0.00 %	20 / 237	TC
Motorola Solutions Inc	0.19 %	0.02 %	133	0.02 %	45	0.10 %	150 / 237	PRE
Murata Manufacturing Co Ltd	0.00 %	0.03 %	4	0.00 %	143	0.00 %	211 / 237	CDP
MYOB Group Limited	0.01 %	0.04 %	1	0.00 %	12	0.00 %	21 / 237	TC
National Instruments Corp	0.07 %		38	0.01 %	50	0.03 %	N / A	TC
NEC Corp	0.00 %	0.01 %	9	0.00 %	22	0.01 %	96 / 237	CDP
NetApp Inc	0.01 %	0.01 %	4	0.00 %	43	0.00 %	146 / 237	PRE
NetEase Inc ADR	0.14 %	0.03 %	24	0.00 %	31	0.03 %	124 / 237	TC
Nexon Co Ltd	0.07 %	0.00 %	7	0.00 %	12	0.02 %	25 / 237	TC
NEXTDC Ltd	0.21 %	0.04 %	199	0.03 %	479	-0.01 %	235 / 237	AR*
Nice Ltd	0.00 %	0.00 %	0	0.00 %	17	0.00 %	70 / 237	TC
Nintendo Co Ltd	0.00 %	0.03 %	0	0.00 %	76	0.00 %	184 / 237	TC
Nippon Electric Glass	0.00 %	0.00 %	22	0.00 %	434	-0.00 %	233 / 237	PRE
Nokia OYJ	0.00 %	0.04 %	2	0.00 %	18	0.00 %	86 / 237	PRE
Nomura Research Institute Ltd	0.00 %	0.01 %	1	0.00 %	27	0.00 %	115 / 237	CDP
NTT Data Communications Systems	0.00 %	0.01 %	3	0.00 %	25	0.00 %	105 / 237	CDP*
Nuance Communications Inc	0.00 %	0.01 %	1	0.00 %	11	0.00 %	17 / 237	TC
Nvidia Corp	0.01 %	0.07 %	0	0.00 %	17	0.00 %	80 / 237	ENV
NXP Semiconductor NV	0.00 %	0.04 %	2	0.00 %	107	0.00 %	202 / 237	TC
Obic Co Ltd	0.00 %	0.00 %	0	0.00 %	24	0.00 %	101 / 237	TC
Omron Corp	0.00 %	0.01 %	5	0.00 %	67	0.00 %	175 / 237	CDP
Open Text Corp	0.00 %	0.01 %	0	0.00 %	12	0.00 %	30 / 237	TC
Oracle Corp	0.10 %	0.17 %	22	0.00 %	30	0.03 %	120 / 237	CDP
Oracle Corp Japan	0.01 %	0.00 %	2	0.00 %	17	0.00 %	77 / 237	TC
Otsuka Corp	0.00 %	0.00 %	2	0.00 %	17	0.00 %	72 / 237	TC
Palo Alto Networks Inc.	0.00 %	0.01 %	0	0.00 %	12	0.00 %	33 / 237	TC
Paychex Inc	0.00 %	0.02 %	0	0.00 %	18	0.00 %	85 / 237	TC



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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
PayPal Holdings Inc.	0.14 %	0.06 %	9	0.00 %	10	0.03 %	10 / 237	TC
Pegatron Corporation	0.00 %	0.01 %	12	0.00 %	38	0.01 %	140 / 237	ENV*
Qorvo, Inc	0.00 %	0.01 %	0	0.00 %	38	0.00 %	138 / 237	TC
QUALCOMM Inc	0.03 %	0.10 %	7	0.00 %	26	0.01 %	110 / 237	ENV*
Quanta Computer	0.00 %	0.01 %	6	0.00 %	23	0.01 %	98 / 237	PRE
Red Hat Inc	0.00 %	0.02 %	0	0.00 %	11	0.00 %	19 / 237	TC
Renesas Electronics Corp	0.00 %		3	0.00 %	211	0.00 %	N / A	CDP
Ricoh Co	0.00 %	0.01 %	21	0.00 %	72	0.01 %	178 / 237	CDP
Rightmove Plc	0.03 %		1	0.00 %	9	0.00 %	N / A	AR*
Rohm Co Ltd	0.00 %	0.01 %	8	0.00 %	188	0.00 %	221 / 237	CDP
Sabre Corporation	0.00 %	0.01 %	1	0.00 %	17	0.00 %	83 / 237	TC
Sage Group	0.01 %	0.01 %	1	0.00 %	13	0.00 %	40 / 237	AR*
Salesforce.com	0.13 %	0.07 %	8	0.00 %	21	0.01 %	92 / 237	CDP
Samsung Electro-Mech Co	0.00 %	0.00 %	2	0.00 %	141	0.00 %	210 / 237	PRE
Samsung Electronics Co	0.20 %	0.25 %	360	0.05 %	81	0.13 %	186 / 237	CDP
Samsung SDI Co	0.04 %	0.01 %	118	0.02 %	146	0.02 %	212 / 237	PRE
SAP SE	0.01 %	0.12 %	1	0.00 %	23	0.00 %	97 / 237	CDP
Seagate Technology	0.01 %	0.02 %	17	0.00 %	94	0.01 %	196 / 237	CDP
Seiko Epson Corp	0.00 %	0.01 %	11	0.00 %	83	0.00 %	188 / 237	PRE
ServiceNow Inc.	0.00 %	0.02 %	0	0.00 %	17	0.00 %	79 / 237	TC
Shimadzu Corp	0.00 %	0.00 %	2	0.00 %	46	0.00 %	151 / 237	ENV*
Silex Systems Ltd	0.01 %		1	0.00 %	55	0.00 %	N / A	TC
Silicon Motion Technology ADR	0.15 %		124	0.02 %	107	0.03 %	N / A	TC
SK Hynix Inc	0.01 %	0.03 %	30	0.00 %	250	0.00 %	230 / 237	CDP
Skyworks Solutions Inc	0.00 %	0.02 %	2	0.00 %	104	0.00 %	199 / 237	TC
Sligro Food Group NV	0.00 %		4	0.00 %	28	0.00 %	N / A	PRE
Sohu.com Inc	0.05 %		38	0.01 %	16	0.09 %	N / A	TC
Splunk Inc.	0.00 %	0.01 %	0	0.00 %	11	0.00 %	18 / 237	TC
SS&C Technologies Holdings Inc	0.02 %		1	0.00 %	12	0.00 %	N / A	TC
STMicroelectronics NV [FR Cross-List]	0.00 %	0.01 %	15	0.00 %	175	0.00 %	218 / 237	ENV*
Symantec Corp	0.09 %	0.02 %	30	0.00 %	28	0.04 %	116 / 237	OTH
Synopsys Inc	0.00 %	0.01 %	0	0.00 %	12	0.00 %	34 / 237	TC
Taiwan Semiconductor Manufacturing Co	0.79 %	0.19 %	1,174	0.16 %	222	0.06 %	226 / 237	PRE
Tata Consultancy Services Ltd	0.33 %	0.02 %	81	0.01 %	34	0.09 %	129 / 237	CDP*
TDK Corp	0.00 %	0.01 %	13	0.00 %	191	0.00 %	222 / 237	CDP
TE Connectivity Ltd.	0.01 %	0.03 %	6	0.00 %	62	0.00 %	171 / 237	CDP





S&P Dow Jones Indices  
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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Tech Data Corp	0.00 %		10	0.00 %	35	0.01 %	N / A	TC
Tech Mahindra Ltd	0.14 %	0.00 %	102	0.01 %	35	0.10 %	133 / 237	CDP
Tencent Holdings Ltd.	0.23 %	0.20 %	8	0.00 %	16	0.02 %	53 / 237	TC
Texas Instruments Inc	0.01 %	0.10 %	7	0.00 %	172	0.00 %	216 / 237	CDP
Tokyo Electron	0.00 %	0.02 %	2	0.00 %	46	0.00 %	153 / 237	CDP
Total System Services Inc	0.00 %	0.01 %	1	0.00 %	30	0.00 %	121 / 237	TC
Toukei Computer Co	0.00 %		1	0.00 %	12	0.00 %	N / A	TC
Trend Micro Inc	0.00 %	0.01 %	0	0.00 %	12	0.00 %	28 / 237	TC
Trimble Inc	0.00 %	0.01 %	2	0.00 %	49	0.00 %	157 / 237	TC
Twitter Inc	0.00 %	0.01 %	0	0.00 %	16	0.00 %	59 / 237	TC
Ultimate Software Group Inc	0.03 %		1	0.00 %	12	0.00 %	N / A	TC
United Internet AG Reg	0.00 %	0.01 %	1	0.00 %	17	0.00 %	76 / 237	TC
United Microelectronics Corp	0.00 %	0.01 %	8	0.00 %	328	-0.00 %	231 / 237	PRE
Vantiv Inc	0.00 %	0.01 %	0	0.00 %	10	0.00 %	9 / 237	TC
VeriSign Inc	0.00 %	0.01 %	0	0.00 %	17	0.00 %	73 / 237	TC
Visa Inc	0.19 %	0.20 %	4	0.00 %	9	0.02 %	7 / 237	ENV*
Vmware Inc	0.04 %	0.01 %	27	0.00 %	93	0.01 %	195 / 237	PRE
WebMD Health Corp	0.02 %		4	0.00 %	16	0.01 %	N / A	TC
Western Digital Corp	0.00 %	0.03 %	5	0.00 %	73	0.00 %	179 / 237	PRE
Western Union Co	0.00 %	0.01 %	1	0.00 %	12	0.00 %	36 / 237	PRE
Wipro Ltd	0.00 %	0.01 %	0	0.00 %	43	0.00 %	147 / 237	CDP
Workday Inc.	0.00 %	0.01 %	0	0.00 %	16	0.00 %	64 / 237	PRE
Worldpay Group Plc	0.02 %	0.01 %	5	0.00 %	9	0.02 %	4 / 237	CDP
Xerox Corp	0.00 %	0.01 %	8	0.00 %	26	0.01 %	111 / 237	OTH
Xilinx Inc	0.00 %	0.02 %	1	0.00 %	54	0.00 %	164 / 237	CDP
Yahoo Japan Corp	0.00 %	0.01 %	0	0.00 %	17	0.00 %	74 / 237	TC
Yaskawa Electric Corp	0.00 %	0.01 %	3	0.00 %	57	0.00 %	166 / 237	TC
Yokogawa Electric Corp	0.00 %	0.00 %	4	0.00 %	58	0.00 %	167 / 237	CDP
Zillow Group, Inc.	0.00 %	0.00 %	0	0.00 %	16	0.00 %	49 / 237	TC
<b>Materials</b>	<b>13.72 %</b>	<b>10.44 %</b>	<b>267,684</b>	<b>35.83 %</b>	<b>708</b>	<b>-24.33 %</b>		
Adelaide Brighton Ltd	0.02 %	0.08 %	799	0.11 %	2,351	-0.09 %	213 / 239	AR*
Agnico Eagle Mines Limited	0.00 %	0.01 %	2	0.00 %	194	0.00 %	36 / 239	ENV*
Agrium Inc	0.00 %	0.02 %	28	0.00 %	402	-0.00 %	109 / 239	ENV*
Air Liquide	0.03 %	0.05 %	506	0.07 %	1,068	-0.05 %	184 / 239	AR*
Air Products & Chemicals Inc	0.12 %	0.03 %	3,220	0.43 %	2,440	-0.38 %	216 / 239	ENV*



S&P Dow Jones Indices  
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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Air Water Inc	0.00 %	0.00 %	24	0.00 %	341	-0.00 %	93 / 239	ENV*
AK Steel Hldg Corp	0.03 %		8,005	1.07 %	2,160	-0.92 %	N / A	TC
Akzo Nobel NV	0.07 %	0.03 %	467	0.06 %	232	0.02 %	47 / 239	CDP
Alacer Gold Corp.	0.06 %	0.01 %	224	0.03 %	260	0.00 %	59 / 239	TC
Albemarle Corp	0.00 %	0.01 %	5	0.00 %	142	0.00 %	25 / 239	PRE
Alcoa Corp	0.00 %		398	0.05 %	1,303	-0.04 %	N / A	CDP
Alumina Ltd	1.05 %	0.14 %	36,131	4.84 %	1,723	-4.03 %	204 / 239	CDP
Amcord Ltd	0.54 %	0.58 %	3,644	0.49 %	267	0.06 %	62 / 239	ENV*
Angang Steel Co Ltd	0.00 %		84	0.01 %	2,240	-0.01 %	N / A	TC
Anglo American Corp of SA	0.10 %	0.03 %	2,498	0.33 %	670	-0.18 %	159 / 239	ENV*
AngloGold Ashanti Ltd	0.00 %	0.01 %	10	0.00 %	795	-0.00 %	169 / 239	ENV*
Anhui Conch Cement Co Ltd	0.00 %	0.01 %	119	0.02 %	6,101	-0.02 %	236 / 239	TC
Antofagasta Hldgs	0.00 %	0.01 %	10	0.00 %	460	-0.00 %	122 / 239	ENV*
Aperam	0.05 %		1,327	0.18 %	613	-0.09 %	N / A	ENV*
ArcelorMittal Inc	0.01 %	0.02 %	1,598	0.21 %	2,721	-0.19 %	218 / 239	ENV*
Arconic Inc	0.12 %	0.01 %	10,937	1.46 %	1,285	-1.13 %	197 / 239	ENV*
Arkema	0.00 %	0.01 %	37	0.00 %	437	-0.00 %	116 / 239	CDP
Arrium Ltd.	0.00 %		17,913	2.40 %	1,077	-1.74 %	N / A	ENV*
Asahi Holdings Inc	0.00 %		68	0.01 %	347	-0.00 %	N / A	TC
Asahi Kasei Corporation	0.00 %	0.02 %	41	0.01 %	260	0.00 %	58 / 239	CDP
Ashland Global Holdings Inc	0.00 %	0.01 %	49	0.01 %	800	-0.00 %	170 / 239	PRE
Aurubis AG	0.00 %		69	0.01 %	191	0.01 %	N / A	PRE
Avery Dennison Corp	0.00 %	0.01 %	16	0.00 %	189	0.00 %	35 / 239	PRE
Axalta Coating Systems Ltd	0.00 %	0.01 %	4	0.00 %	97	0.00 %	13 / 239	CDP
Ball Corp	0.00 %	0.02 %	20	0.00 %	332	-0.00 %	90 / 239	OTH
Barrick Gold Corp	0.00 %	0.03 %	7	0.00 %	353	-0.00 %	96 / 239	CDP
BASF SE	0.01 %	0.11 %	93	0.01 %	296	0.00 %	76 / 239	CDP
Bekaert NV	0.01 %		451	0.06 %	743	-0.04 %	N / A	PRE
BHP Billiton Ltd	1.90 %	2.59 %	11,654	1.56 %	509	-0.65 %	131 / 239	ENV*
Bluescope Steel Ltd	0.76 %	0.23 %	41,672	5.58 %	1,200	-4.24 %	194 / 239	ENV*
Boliden AB	0.00 %	0.01 %	9	0.00 %	204	0.00 %	38 / 239	CDP
Boral Ltd	0.90 %	0.23 %	24,085	3.22 %	1,129	-2.39 %	187 / 239	CDP
Boryszew	0.00 %		37	0.01 %	101	0.01 %	N / A	TC
Braskem SA	0.01 %	0.00 %	214	0.03 %	539	-0.01 %	136 / 239	CDP
Brickworks Ltd	0.01 %	0.04 %	51	0.01 %	475	-0.00 %	128 / 239	TC
CCL Industries Inc	0.00 %	0.01 %	2	0.00 %	113	0.00 %	19 / 239	PRE



S&P Dow Jones Indices  
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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Celanese Corp A	0.00 %	0.02 %	30	0.00 %	441	-0.00 %	118 / 239	PRE
CF Industries Holdings	0.00 %	0.01 %	131	0.02 %	2,359	-0.02 %	214 / 239	TC
China National Building Material Co. Ltd. - H	0.00 %	0.00 %	736	0.10 %	4,209	-0.09 %	228 / 239	TC
China Steel Corp	0.00 %	0.01 %	57	0.01 %	2,171	-0.01 %	210 / 239	PRE
Christian Hansen Holding A/S	0.00 %	0.01 %	1	0.00 %	164	0.00 %	30 / 239	ENV*
Chun Yuan Steel Industry Co Ltd	0.00 %		64	0.01 %	551	-0.00 %	N / A	TC
Clariant AG Reg	0.00 %		4	0.00 %	180	0.00 %	N / A	ENV*
Commercial Metals Co	0.02 %		1,277	0.17 %	770	-0.10 %	N / A	TC
Covestro AG	0.00 %	0.01 %	22	0.00 %	418	-0.00 %	112 / 239	ENV*
CRH Plc	0.00 %	0.04 %	95	0.01 %	763	-0.01 %	168 / 239	ENV
Croda Intl	0.00 %	0.01 %	4	0.00 %	205	0.00 %	39 / 239	ENV*
Crown Holdings Inc	0.00 %	0.01 %	27	0.00 %	260	0.00 %	57 / 239	PRE
CSR Ltd	0.03 %	0.07 %	448	0.06 %	388	-0.01 %	105 / 239	ENV*
Daehan Steel	0.00 %		40	0.01 %	523	-0.00 %	N / A	TC
Daicel Chemical Industries Co	0.00 %	0.00 %	12	0.00 %	390	-0.00 %	107 / 239	ENV*
DIC Corp	0.05 %		557	0.07 %	141	0.08 %	N / A	PRE
Domtar Corp	0.00 %		81	0.01 %	459	-0.00 %	N / A	PRE
Dow Chemical	0.01 %	0.09 %	114	0.02 %	595	-0.01 %	152 / 239	CDP
DuluxGroup Ltd	0.03 %	0.08 %	169	0.02 %	196	0.01 %	37 / 239	TC
E. I. du Pont de Nemours and Company	0.01 %	0.09 %	21	0.00 %	249	0.00 %	54 / 239	PRE
Eastman Chemical Co	0.00 %	0.01 %	61	0.01 %	594	-0.00 %	151 / 239	CDP
Ecolab Inc	0.00 %	0.04 %	3	0.00 %	89	0.00 %	10 / 239	ENV*
Eldorado Gold Corp	0.00 %	0.00 %	2	0.00 %	428	-0.00 %	114 / 239	CDP
EMS-Chemie Hldg AG	0.00 %	0.01 %	3	0.00 %	221	0.00 %	44 / 239	TC
Eregli Demir Celik	0.00 %	0.00 %	43	0.01 %	2,210	-0.00 %	211 / 239	TC
Evolution Mining Ltd	0.15 %	0.08 %	1,033	0.14 %	945	-0.09 %	179 / 239	ENV*
Evonik Industries	0.00 %	0.01 %	54	0.01 %	486	-0.00 %	129 / 239	CDP
Evrax Group GDR	0.00 %		554	0.07 %	3,820	-0.07 %	N / A	AR
Feng Hsin Iron & Steel Co	0.01 %		156	0.02 %	551	-0.01 %	N / A	TC
Ferro Corp	0.04 %		368	0.05 %	335	-0.01 %	N / A	TC
Fibra Celulose S.A.	0.00 %	0.00 %	106	0.01 %	3,053	-0.01 %	221 / 239	PRE
First Quantum Minerals Ltd	0.00 %	0.01 %	4	0.00 %	470	-0.00 %	126 / 239	ENV
Fletcher Building Ltd	0.37 %	0.04 %	9,684	1.30 %	461	-0.46 %	124 / 239	CDP
FMC Corp	0.00 %	0.01 %	6	0.00 %	142	0.00 %	26 / 239	PRE
Formosa Chem & Fiber Co	0.00 %	0.01 %	26	0.00 %	1,877	-0.00 %	207 / 239	TC
Fortescue Metals Group	0.12 %	0.35 %	638	0.09 %	300	0.00 %	78 / 239	AR*



S&P Dow Jones Indices  
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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mnn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Franco-Nevada Corp	0.00 %	0.01 %	0	0.00 %	9	0.00 %	1 / 239	TC
Freeport-McMoRan Inc	0.00 %	0.02 %	55	0.01 %	550	-0.00 %	141 / 239	CDP
Fresnillo PLC	0.00 %	0.01 %	2	0.00 %	445	-0.00 %	119 / 239	CDP
Frutarom	0.00 %	0.00 %	0	0.00 %	88	0.00 %	9 / 239	TC
Fuchs Petrolub SE	0.00 %	0.00 %	6	0.00 %	268	0.00 %	63 / 239	TC
Galaxy Resources Ltd	0.01 %	0.03 %	0	0.00 %	309	-0.00 %	81 / 239	TC
Gerdau SA	0.00 %	0.00 %	74	0.01 %	651	-0.01 %	158 / 239	PRE
Givaudan AG	0.00 %	0.02 %	2	0.00 %	71	0.00 %	6 / 239	CDP
Glencore Plc	0.01 %	0.06 %	146	0.02 %	184	0.01 %	33 / 239	ENV*
Gold Fields Ltd	0.00 %	0.00 %	7	0.00 %	548	-0.00 %	138 / 239	PRE
Goldcorp Inc	0.00 %	0.02 %	1	0.00 %	266	0.00 %	61 / 239	ENV*
Grace W.R. & Co	0.00 %	0.01 %	6	0.00 %	101	0.00 %	16 / 239	TC
Groupe Guillin	0.00 %		7	0.00 %	159	0.00 %	N / A	TC
Grupo Mexico SAB de CV	0.00 %	0.01 %	16	0.00 %	708	-0.00 %	163 / 239	ENV*
Hakudo Co Ltd	0.00 %		30	0.00 %	448	-0.00 %	N / A	TC
HeidelbergCement AG	0.00 %	0.02 %	380	0.05 %	3,432	-0.05 %	224 / 239	OTH
Hill & Smith Holdings	0.00 %		38	0.01 %	463	-0.00 %	N / A	CDP
Hitachi Chemical Co	0.00 %	0.00 %	7	0.00 %	172	0.00 %	31 / 239	CDP
Hitachi Metals	0.00 %	0.00 %	46	0.01 %	316	-0.00 %	84 / 239	ENV*
Huntsman Corp	0.00 %		20	0.00 %	301	-0.00 %	N / A	ENV*
Hyosung Corp	0.00 %	0.00 %	7	0.00 %	216	0.00 %	42 / 239	PRE
Hyundai Steel Co	0.00 %	0.01 %	115	0.02 %	1,473	-0.01 %	200 / 239	CDP
Iluka Resources Ltd	0.68 %	0.10 %	3,509	0.47 %	561	-0.22 %	143 / 239	AR*
Imerys	0.00 %	0.00 %	66	0.01 %	1,125	-0.01 %	186 / 239	ENV*
Incitec Pivot	0.21 %	0.21 %	3,417	0.46 %	937	-0.31 %	178 / 239	PRE
Independence Group NL	0.09 %	0.05 %	113	0.02 %	140	0.02 %	24 / 239	CDP
Indocement Tunggak Prakarsa Tbk PT	0.04 %	0.00 %	2,834	0.38 %	5,986	-0.36 %	234 / 239	TC
Intl Flavors & Fragrances	0.05 %	0.01 %	53	0.01 %	101	0.01 %	15 / 239	ENV*
Intl Paper Co	0.00 %	0.02 %	238	0.03 %	1,436	-0.03 %	199 / 239	PRE
Israel Chemical Corp	0.00 %	0.00 %	30	0.00 %	473	-0.00 %	127 / 239	CDP
Israel Corp	0.00 %		31	0.00 %	648	-0.00 %	N / A	TC
James Hardie Industries plc	0.03 %	0.30 %	57	0.01 %	245	0.00 %	51 / 239	TC
JFE Holdings Inc	0.00 %	0.01 %	783	0.10 %	1,771	-0.09 %	205 / 239	ENV
Jiangxi Copper Co Ltd	0.00 %	0.00 %	12	0.00 %	255	0.00 %	56 / 239	TC
Johnson, Matthey	0.00 %	0.01 %	20	0.00 %	132	0.00 %	22 / 239	CDP
JSR Corp	0.00 %	0.00 %	11	0.00 %	331	-0.00 %	89 / 239	CDP



S&P Dow Jones Indices  
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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
K+S AG	0.00 %	0.01 %	22	0.00 %	338	-0.00 %	91 / 239	AR*
Kaiser Aluminum	0.03 %		1,515	0.20 %	1,533	-0.16 %	N / A	TC
Kaneka Corp	0.00 %	0.00 %	14	0.00 %	338	-0.00 %	92 / 239	ENV*
Kansai Paint Co	0.17 %	0.01 %	301	0.04 %	93	0.09 %	11 / 239	TC
Kety	0.00 %		2	0.00 %	263	0.00 %	N / A	TC
KGHM Polska Miedz SA Br	0.00 %	0.01 %	27	0.00 %	593	-0.00 %	149 / 239	AR*
Kinross Gold Corp	0.00 %	0.01 %	6	0.00 %	367	-0.00 %	99 / 239	CDP
Kobe Steel	0.00 %	0.00 %	309	0.04 %	1,240	-0.03 %	195 / 239	ENV*
Koninklijke DSM NV	0.00 %	0.02 %	19	0.00 %	274	0.00 %	64 / 239	CDP
Korea Zinc Co	0.00 %	0.00 %	2	0.00 %	314	-0.00 %	83 / 239	TC
Kumba Iron Ore	0.00 %		32	0.00 %	433	-0.00 %	N / A	CDP
Kuraray Co	0.00 %	0.01 %	33	0.00 %	526	-0.00 %	134 / 239	PRE
LafargeHolcim Ltd	0.00 %	0.03 %	402	0.05 %	4,714	-0.05 %	229 / 239	CDP
Lanxess AG	0.00 %	0.01 %	65	0.01 %	458	-0.00 %	121 / 239	CDP*
LG Chem Ltd	0.00 %	0.02 %	26	0.00 %	431	-0.00 %	115 / 239	CDP
Linde AG	0.07 %	0.04 %	1,587	0.21 %	976	-0.15 %	181 / 239	ENV*
Lotte Chemical Corporation	0.00 %	0.01 %	29	0.00 %	539	-0.00 %	135 / 239	PRE
LyondellBasell Industries N.V.	0.01 %	0.04 %	230	0.03 %	583	-0.01 %	148 / 239	ENV*
Maanshan Iron and Steel Co Ltd	0.00 %		118	0.02 %	2,210	-0.01 %	N / A	TC
Magnitogorsk Iron & Steel Works	0.01 %		338	0.05 %	2,210	-0.04 %	N / A	TC
Martin Marietta Materials	0.00 %	0.02 %	33	0.00 %	1,145	-0.00 %	188 / 239	TC
Maruichi Steel Tube	0.00 %	0.00 %	10	0.00 %	646	-0.00 %	157 / 239	TC
Mayr-Melnhof Karton AG	0.00 %		71	0.01 %	576	-0.00 %	N / A	TC
Metals X Limited	0.06 %	0.01 %	433	0.06 %	275	0.01 %	68 / 239	TC
METHANEX CORP.	0.00 %	0.01 %	1	0.00 %	51	0.00 %	4 / 239	TC
Mitsubishi Chemical Holdings Corp	0.00 %	0.01 %	117	0.02 %	342	-0.00 %	95 / 239	CDP
Mitsubishi Gas Chemical Co	0.00 %	0.00 %	32	0.00 %	684	-0.00 %	162 / 239	ENV*
Mitsubishi Materials Corp	0.00 %	0.00 %	258	0.03 %	909	-0.02 %	177 / 239	CDP
Mitsui Chemicals Inc	0.00 %	0.01 %	60	0.01 %	361	-0.00 %	97 / 239	CDP
MMC Norilsk Nickel	0.01 %	0.01 %	70	0.01 %	903	-0.01 %	176 / 239	ENV*
Mondi Ltd	0.00 %	0.01 %	44	0.01 %	674	-0.00 %	160 / 239	CDP
Monsanto Co.	0.07 %	0.06 %	431	0.06 %	681	-0.03 %	161 / 239	ENV*
Mory Industries Inc	0.00 %		30	0.00 %	657	-0.00 %	N / A	TC
Mosaic Co	0.00 %	0.01 %	58	0.01 %	546	-0.00 %	137 / 239	PRE
Mount Gibson Iron	0.02 %		82	0.01 %	252	0.00 %	N / A	PRE
Nakayama Steel Works	0.00 %		58	0.01 %	645	-0.00 %	N / A	TC



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ESG Analysis

# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Nan Ya Plastics Corp	0.00 %	0.01 %	4	0.00 %	162	0.00 %	28 / 239	TC
Newcrest Mining Ltd	1.08 %	0.56 %	5,875	0.79 %	603	-0.40 %	153 / 239	PRE
Newmont Mining Corp	0.00 %	0.02 %	9	0.00 %	561	-0.00 %	144 / 239	ENV
Nippon Denko Co	0.00 %		448	0.06 %	2,210	-0.05 %	N / A	TC
Nippon Light Metal Holdings Co Ltd	0.01 %		269	0.04 %	342	-0.00 %	N / A	ENV
Nippon Paint Holdings Co Ltd	0.00 %	0.01 %	0	0.00 %	86	0.00 %	8 / 239	PRE
NIPPON STEEL & SUMIKIN BUSSAN CORP	0.00 %		113	0.02 %	524	-0.01 %	N / A	TC
Nippon Steel & Sumitomo Metal Corp	0.00 %	0.02 %	582	0.08 %	2,009	-0.07 %	208 / 239	ENV*
Nissan Chemical Industries	0.00 %	0.00 %	1	0.00 %	312	-0.00 %	82 / 239	PRE
Nittetsu Mining Co	0.00 %		129	0.02 %	398	-0.00 %	N / A	TC
NITTO DENKO CORP	0.00 %	0.02 %	5	0.00 %	221	0.00 %	45 / 239	CDP
NMDC Ltd	0.00 %		3	0.00 %	128	0.00 %	N / A	CDP
Norsk Hydro AS	0.04 %	0.01 %	1,452	0.19 %	1,038	-0.14 %	183 / 239	CDP*
Northern Star Resources Ltd	0.02 %	0.08 %	53	0.01 %	288	0.00 %	73 / 239	TC
Novolipetsk Steel (GDR)	0.00 %		226	0.03 %	2,147	-0.03 %	N / A	TC
Novozymes AS B	0.21 %	0.01 %	309	0.04 %	237	0.01 %	49 / 239	CDP
Nucor Corp	0.01 %	0.02 %	191	0.03 %	608	-0.01 %	154 / 239	TC
Nufarm Limited	0.23 %	0.06 %	776	0.10 %	82	0.28 %	7 / 239	ENV*
Oji Holdings Corp	0.00 %	0.00 %	112	0.01 %	620	-0.01 %	155 / 239	ENV*
Orica Ltd	0.05 %	0.22 %	730	0.10 %	409	-0.03 %	111 / 239	ENV*
Orocobre Ltd	0.06 %	0.02 %	22	0.00 %	288	0.00 %	75 / 239	TC
Orora Limited	0.17 %	0.11 %	2,406	0.32 %	389	-0.07 %	106 / 239	AR*
Owens-Illinois Inc	0.00 %		19	0.00 %	824	-0.00 %	N / A	CDP
OZ Minerals Limited	0.03 %	0.08 %	206	0.03 %	450	-0.01 %	120 / 239	ENV*
Packaging Corp of America	0.00 %	0.01 %	38	0.01 %	567	-0.00 %	145 / 239	TC
PACT GROUP HOLDINGS LTD	0.07 %	0.04 %	324	0.04 %	220	0.02 %	43 / 239	TC
Perseus Mining Limited	0.00 %	0.01 %	8	0.00 %	288	0.00 %	74 / 239	TC
Petronas Chemicals Group Bhd	0.00 %	0.01 %	5	0.00 %	514	-0.00 %	133 / 239	TC
PhosAgro PJSC	0.00 %	0.00 %	35	0.00 %	1,195	-0.00 %	193 / 239	AR*
POSCO	0.01 %	0.02 %	1,063	0.14 %	1,155	-0.11 %	189 / 239	CDP
Potash Corp of Saskatchewan	0.00 %	0.02 %	44	0.01 %	1,583	-0.00 %	202 / 239	ENV*
PPG Industries Inc	0.00 %	0.03 %	11	0.00 %	154	0.00 %	27 / 239	PRE
Praxair Inc	0.04 %	0.04 %	695	0.09 %	1,517	-0.07 %	201 / 239	OTH
PTT Global Chemical PCL	0.00 %	0.01 %	36	0.00 %	574	-0.00 %	147 / 239	ENV*
Randgold Resources Ltd	0.00 %	0.01 %	4	0.00 %	710	-0.00 %	164 / 239	ENV*
Regis Resources Ltd	0.13 %	0.05 %	383	0.05 %	275	0.00 %	65 / 239	TC





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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Reliance Steel & Aluminum	0.04 %		84	0.01 %	38	0.08 %	N / A	TC
Resolute Mining Ltd	0.02 %	0.03 %	105	0.01 %	275	0.00 %	67 / 239	TC
Rio Tinto Plc	1.09 %	0.91 %	14,501	1.94 %	805	-1.23 %	171 / 239	ENV*
Salzgitter AG	0.00 %		532	0.07 %	684	-0.04 %	N / A	PRE
Sandfire Resources NL	0.11 %	0.03 %	372	0.05 %	210	0.02 %	40 / 239	ENV*
Sealed Air Corp	0.03 %	0.01 %	136	0.02 %	129	0.02 %	21 / 239	CDP
Severstal PJSC	0.02 %	0.00 %	931	0.12 %	2,229	-0.11 %	212 / 239	TC
Sheng Yu Steel Co Ltd	0.00 %		106	0.01 %	2,210	-0.01 %	N / A	TC
Sherwin-Williams Co	0.00 %	0.03 %	3	0.00 %	61	0.00 %	5 / 239	CDP
Shin-Etsu Chemical Co	0.00 %	0.04 %	19	0.00 %	467	-0.00 %	125 / 239	CDP*
Showa Denko KK	0.00 %		28	0.00 %	481	-0.00 %	N / A	PRE
Siam Cement Public Co.	0.00 %	0.01 %	42	0.01 %	1,618	-0.00 %	203 / 239	ENV*
Sika AG	0.05 %	0.02 %	153	0.02 %	246	0.00 %	52 / 239	AR
Sims Metal Management Ltd	0.74 %	0.06 %	3,130	0.42 %	43	2.55 %	3 / 239	CDP
Sinopec Shanghai Petrochemical Co Ltd	0.00 %	0.00 %	38	0.01 %	439	-0.00 %	117 / 239	TC
Smurfit Kappa Group PLC	0.00 %		25	0.00 %	681	-0.00 %	N / A	CDP
Solvay	0.00 %	0.01 %	89	0.01 %	809	-0.01 %	172 / 239	AR*
South32 Ltd (South Africa)	0.28 %	0.49 %	16,406	2.20 %	3,129	-1.99 %	222 / 239	ENV*
Southern Copper Corp	0.00 %	0.00 %	5	0.00 %	383	-0.00 %	103 / 239	PRE
St Barbara Limited	0.01 %	0.04 %	35	0.00 %	237	0.00 %	48 / 239	PRE
ST Corp	0.00 %		2	0.00 %	64	0.00 %	N / A	TC
Steel & Tube Hldgs	0.00 %		48	0.01 %	669	-0.00 %	N / A	TC
Steel Authority of India Ltd	0.00 %		206	0.03 %	3,941	-0.03 %	N / A	ENV*
Steel Dynamics Inc	0.01 %		166	0.02 %	551	-0.01 %	N / A	TC
Stora Enso OYJ	0.00 %	0.01 %	141	0.02 %	1,190	-0.01 %	192 / 239	CDP
Sumitomo Chemical Co	0.00 %	0.01 %	67	0.01 %	373	-0.00 %	101 / 239	CDP
Sumitomo Metal Mining Co	0.00 %	0.01 %	26	0.00 %	427	-0.00 %	113 / 239	CDP
Symrise AG	0.00 %	0.01 %	2	0.00 %	101	0.00 %	17 / 239	CDP
Syrah Resources Limited	0.08 %	0.02 %	1	0.00 %	327	-0.00 %	87 / 239	TC
Taekwang Ind Co	0.00 %		49	0.01 %	216	0.00 %	N / A	TC
Taiheiyo Cement Corp	0.00 %	0.00 %	465	0.06 %	3,564	-0.06 %	225 / 239	OTH
Taiwan Cement Corp	0.00 %	0.00 %	53	0.01 %	6,245	-0.01 %	237 / 239	TC
Taiyo Nippon Sanso Corp	0.00 %	0.00 %	21	0.00 %	573	-0.00 %	146 / 239	ENV*
Tata Steel Ltd	0.00 %	0.00 %	161	0.02 %	2,614	-0.02 %	217 / 239	CDP*
Teck Resources Limited	0.00 %	0.02 %	24	0.00 %	374	-0.00 %	102 / 239	CDP
Teijin	0.00 %	0.00 %	21	0.00 %	255	0.00 %	55 / 239	CDP





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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Ternium SA ADR	0.00 %		159	0.02 %	2,170	-0.02 %	N / A	TC
ThyssenKrupp AG	0.00 %	0.01 %	267	0.04 %	711	-0.02 %	165 / 239	ENV
Toray Industries Inc	0.00 %	0.02 %	19	0.00 %	324	-0.00 %	86 / 239	CDP*
Tosoh Corp	0.05 %		944	0.13 %	501	-0.05 %	N / A	TC
Toyo Seikan Group Holdings Ltd	0.00 %	0.00 %	28	0.00 %	394	-0.00 %	108 / 239	CDP*
Tung Ho Steel Enterprise Corp	0.00 %		116	0.02 %	551	-0.01 %	N / A	TC
Turquoise Hill Resources Ltd	0.00 %	0.00 %	2	0.00 %	299	0.00 %	77 / 239	TC
Umicore	0.00 %	0.01 %	16	0.00 %	125	0.00 %	20 / 239	AR*
United States Steel Corp	0.00 %		56	0.01 %	2,246	-0.01 %	N / A	PRE
UPM-Kymmene Oyj	0.00 %	0.02 %	93	0.01 %	1,185	-0.01 %	191 / 239	CDP
Vale S.A.	0.27 %	0.04 %	3,393	0.45 %	593	-0.22 %	150 / 239	PRE
Valmet	0.04 %		222	0.03 %	121	0.04 %	N / A	TC
Valspar Corp	0.00 %	0.01 %	3	0.00 %	103	0.00 %	18 / 239	TC
Vedanta Ltd	0.00 %	0.01 %	132	0.02 %	3,325	-0.02 %	223 / 239	CDP
Vedanta Resources Inc	0.00 %		340	0.05 %	2,993	-0.04 %	N / A	CDP
VOESTALPINE AG	0.03 %	0.01 %	2,089	0.28 %	1,270	-0.21 %	196 / 239	ENV*
Vulcan Materials Co	0.04 %	0.02 %	89	0.01 %	308	-0.00 %	80 / 239	TC
Wacker Chemie AG	0.00 %		12	0.00 %	425	-0.00 %	N / A	CDP
West Fraser Timber Co Ltd	0.00 %	0.00 %	10	0.00 %	278	0.00 %	69 / 239	TC
Western Areas Ltd	0.05 %	0.02 %	179	0.02 %	186	0.01 %	34 / 239	PRE
WestRock Co	0.00 %	0.02 %	69	0.01 %	554	-0.00 %	142 / 239	TC
Wheaton Precious Metals Corp.	0.00 %	0.01 %	0	0.00 %	9	0.00 %	2 / 239	CDP
Worthington Industries Inc	0.03 %		548	0.07 %	564	-0.03 %	N / A	TC
Yamana Gold Inc	0.00 %	0.00 %	2	0.00 %	225	0.00 %	46 / 239	ENV*
Yara International ASA	0.00 %	0.01 %	149	0.02 %	1,161	-0.01 %	190 / 239	ENV*
Yodogawa Steel Works	0.01 %		1,364	0.18 %	2,561	-0.16 %	N / A	TC
Zeon Corp	0.05 %		423	0.06 %	252	0.01 %	N / A	ENV*
Zijin Mining Group Co Ltd	0.00 %	0.00 %	10	0.00 %	330	-0.00 %	88 / 239	TC
<b>Real Estate</b>	<b>2.23 %</b>	<b>5.74 %</b>	<b>2,692</b>	<b>0.36 %</b>	<b>53</b>	<b>1.71 %</b>		
Abacus Property Group	0.02 %	0.03 %	11	0.00 %	116	0.00 %	150 / 171	ENV*
Aeon Mall Co Ltd	0.00 %	0.00 %	10	0.00 %	378	-0.00 %	168 / 171	ENV*
Agile Group Holdings Ltd	0.00 %		6	0.00 %	72	0.00 %	N / A	TC
Alexandria Real Estate Eqty	0.00 %	0.01 %	0	0.00 %	58	0.00 %	55 / 171	TC
Allreal Holding AG	0.02 %		10	0.00 %	58	0.01 %	N / A	TC
American Tower Corp A	0.05 %	0.06 %	10	0.00 %	62	0.00 %	107 / 171	PRE



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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
AMOT Investment Ltd	0.00 %		0	0.00 %	58	0.00 %	N / A	TC
Argosy Property Ltd	0.00 %		1	0.00 %	61	0.00 %	N / A	TC
Ascendas REIT	0.00 %	0.01 %	0	0.00 %	85	0.00 %	140 / 171	AR*
AvalonBay Communities Inc	0.00 %	0.03 %	0	0.00 %	41	0.00 %	20 / 171	PRE
Aveo Group Trust	0.00 %	0.04 %	0	0.00 %	71	0.00 %	128 / 171	TC
Azrieli Group	0.00 %	0.00 %	1	0.00 %	58	0.00 %	44 / 171	TC
Boston Properties Inc	0.00 %	0.03 %	1	0.00 %	86	0.00 %	141 / 171	ENV*
British Land Co	0.00 %	0.01 %	1	0.00 %	47	0.00 %	23 / 171	CDP
Brixmor Property Group Inc	0.00 %	0.01 %	1	0.00 %	58	0.00 %	48 / 171	TC
Brookfield Asset Management Inc	0.00 %	0.04 %	2	0.00 %	57	0.00 %	38 / 171	PRE
BWP Trust	0.01 %	0.04 %	1	0.00 %	52	0.00 %	27 / 171	PRE
Camden Property Trust	0.00 %	0.01 %	1	0.00 %	58	0.00 %	47 / 171	TC
CapitalLand Commercial Trust	0.00 %	0.00 %	0	0.00 %	94	0.00 %	142 / 171	PRE
Capitaland Ltd	0.00 %	0.01 %	3	0.00 %	115	0.00 %	149 / 171	ENV*
Capitaland Mall Trust REIT	0.00 %	0.00 %	0	0.00 %	104	0.00 %	145 / 171	AR*
Care Capital Properties Inc	0.00 %		0	0.00 %	58	0.00 %	N / A	TC
CBRE Group Inc.	0.00 %	0.01 %	1	0.00 %	11	0.00 %	4 / 171	PRE
Charter Hall Group	0.07 %	0.07 %	136	0.02 %	762	-0.01 %	170 / 171	PRE
Charter Hall Retail REIT	0.02 %	0.05 %	5	0.00 %	79	0.00 %	136 / 171	PRE
Cheung Kong Property Holding Ltd	0.00 %	0.02 %	2	0.00 %	60	0.00 %	84 / 171	TC
China Evergrande Group	0.00 %	0.00 %	11	0.00 %	59	0.01 %	71 / 171	TC
China Overseas Land & Investment Ltd.	0.00 %	0.01 %	3	0.00 %	72	0.00 %	129 / 171	TC
China Resources Land Ltd.	0.00 %	0.01 %	2	0.00 %	59	0.00 %	67 / 171	TC
China Vanke Co Ltd	0.00 %	0.00 %	3	0.00 %	39	0.00 %	15 / 171	PRE
City Developments Ltd	0.00 %	0.00 %	4	0.00 %	144	0.00 %	155 / 171	ENV*
Country Garden Holdings Co. Ltd.	0.00 %	0.01 %	3	0.00 %	59	0.00 %	66 / 171	TC
Cromwell Property Group	0.03 %	0.04 %	14	0.00 %	68	0.01 %	124 / 171	ENV*
Crown Castle Intl Corp	0.00 %	0.04 %	0	0.00 %	19	0.00 %	6 / 171	TC
Daito Trust Construction Co	0.09 %	0.01 %	107	0.01 %	29	0.14 %	8 / 171	CDP
Daiwa House Industry Co	0.00 %	0.02 %	5	0.00 %	40	0.00 %	19 / 171	CDP
Daiwahouse Asset Management	0.00 %	0.00 %	0	0.00 %	61	0.00 %	96 / 171	TC
Deutsche Wohnen AG BR	0.00 %	0.01 %	0	0.00 %	62	0.00 %	108 / 171	TC
Dexus	0.02 %	0.31 %	13	0.00 %	167	0.00 %	161 / 171	ENV
Digital Realty Trust	0.00 %	0.02 %	0	0.00 %	17	0.00 %	5 / 171	TC
Duke Realty Corp	0.00 %	0.01 %	1	0.00 %	58	0.00 %	57 / 171	TC
Dupont Fabros Technology Inc	0.05 %		12	0.00 %	67	0.01 %	N / A	TC



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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$m <sup>n</sup> )	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Ellington Residential Mortgage REIT	0.00 %		0	0.00 %	11	0.00 %	N / A	TC
Equinix Inc	0.00 %	0.04 %	4	0.00 %	331	-0.00 %	166 / 171	PRE
Equity Residential	0.00 %	0.03 %	1	0.00 %	59	0.00 %	73 / 171	TC
Essex Property Trust	0.00 %	0.02 %	0	0.00 %	59	0.00 %	69 / 171	TC
Extra Space Storage Inc	0.00 %	0.01 %	0	0.00 %	58	0.00 %	50 / 171	TC
Federal Realty Invst Trust	0.00 %	0.01 %	0	0.00 %	61	0.00 %	94 / 171	TC
First Capital Realty Inc	0.00 %	0.00 %	0	0.00 %	65	0.00 %	119 / 171	PRE
Fonciere des Regions	0.00 %	0.00 %	1	0.00 %	58	0.00 %	46 / 171	TC
Fortune REIT	0.00 %		0	0.00 %	58	0.00 %	N / A	TC
GCP Student Living plc	0.00 %		0	0.00 %	60	0.00 %	N / A	TC
GDI PROPERTY GROUP	0.05 %	0.02 %	16	0.00 %	59	0.01 %	80 / 171	TC
Gecina	0.00 %	0.01 %	0	0.00 %	29	0.00 %	9 / 171	AR*
GGP Inc	0.00 %	0.02 %	2	0.00 %	154	0.00 %	160 / 171	ENV*
Global Logistic Properties Ltd	0.00 %	0.01 %	0	0.00 %	55	0.00 %	32 / 171	TC
Goodman Group	0.02 %	0.41 %	3	0.00 %	38	0.00 %	13 / 171	ENV*
GPT Group	0.03 %	0.31 %	18	0.00 %	147	0.00 %	158 / 171	ENV*
Growthpoint Properties Australia	0.02 %	0.03 %	2	0.00 %	38	0.00 %	14 / 171	CDP
Guangzhou R&F Properties Co Ltd - H	0.00 %	0.00 %	3	0.00 %	72	0.00 %	132 / 171	TC
H&R REIT	0.00 %	0.00 %	1	0.00 %	59	0.00 %	77 / 171	TC
Hammerson	0.00 %	0.01 %	0	0.00 %	73	0.00 %	135 / 171	AR
Hang Lung Group Ltd.	0.00 %	0.00 %	1	0.00 %	133	0.00 %	152 / 171	ENV*
Hang Lung Properties Ltd.	0.01 %	0.01 %	14	0.00 %	187	0.00 %	164 / 171	PRE
HCP Inc	0.00 %	0.02 %	2	0.00 %	113	0.00 %	148 / 171	AR*
Henderson Land Development Co. Ltd.	0.00 %	0.01 %	1	0.00 %	58	0.00 %	64 / 171	TC
Highwoods Properties	0.03 %		9	0.00 %	67	0.00 %	N / A	TC
Hong Kong Land Hldgs Ltd	0.00 %	0.01 %	1	0.00 %	59	0.00 %	74 / 171	TC
Host Hotels & Resorts Inc	0.00 %	0.02 %	4	0.00 %	68	0.00 %	123 / 171	OTH*
HOTEL PROPERTY INVESTMENTS	0.00 %	0.01 %	0	0.00 %	61	0.00 %	102 / 171	TC
Housing Development & Infrastructure Ltd	0.00 %		2	0.00 %	75	0.00 %	N / A	TC
Hulic Co Ltd (New)	0.00 %	0.00 %	0	0.00 %	52	0.00 %	28 / 171	TC
Hysan Development Co. Ltd.	0.00 %	0.00 %	0	0.00 %	70	0.00 %	127 / 171	AR*
Icade	0.00 %	0.00 %	1	0.00 %	33	0.00 %	12 / 171	CDP
Intershop Hldg AG Reg	0.00 %		1	0.00 %	58	0.00 %	N / A	TC
Intu Properties PLC	0.00 %	0.00 %	0	0.00 %	40	0.00 %	18 / 171	ENV*
Investa Office Fund	0.01 %	0.09 %	13	0.00 %	331	-0.00 %	165 / 171	CDP
Iron Mountain Inc	0.09 %	0.06 %	83	0.01 %	70	0.04 %	125 / 171	PRE



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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mnn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Japan Prime Realty Inv Corp JREIT	0.00 %	0.00 %	0	0.00 %	58	0.00 %	60 / 171	TC
Japan Real Estate Invest Corp JREIT	0.00 %	0.01 %	0	0.00 %	56	0.00 %	35 / 171	TC
Japan Retail Fund Investment JREIT	0.00 %	0.01 %	0	0.00 %	63	0.00 %	109 / 171	TC
Jones Lang Lasalle Inc	0.22 %	0.01 %	102	0.01 %	11	0.38 %	3 / 171	CDP
Kerry Properties Ltd.	0.00 %	0.00 %	3	0.00 %	63	0.00 %	113 / 171	TC
Kimco Realty Corp	0.00 %	0.01 %	0	0.00 %	42	0.00 %	21 / 171	PRE
Kiwi Property Group Limited	0.01 %		1	0.00 %	23	0.00 %	N / A	CDP
Klepierre	0.00 %	0.01 %	0	0.00 %	70	0.00 %	126 / 171	AR*
Land Securities Group PLC	0.00 %	0.01 %	0	0.00 %	45	0.00 %	22 / 171	CDP
Lend Lease Group	0.43 %	0.30 %	1,238	0.17 %	53	0.79 %	29 / 171	ENV*
Liberty Property Trust	0.00 %	0.01 %	2	0.00 %	178	0.00 %	162 / 171	CDP
Link REIT	0.00 %	0.02 %	1	0.00 %	96	0.00 %	144 / 171	PRE
Longfor Properties Co. Ltd.	0.00 %	0.00 %	1	0.00 %	58	0.00 %	52 / 171	TC
Macerich Co	0.00 %	0.01 %	0	0.00 %	56	0.00 %	33 / 171	PRE
Mid-America Apt Communities	0.00 %	0.01 %	0	0.00 %	58	0.00 %	56 / 171	TC
Mirvac Group	0.05 %	0.27 %	34	0.00 %	66	0.02 %	121 / 171	CDP
Mitsubishi Estate Co	0.00 %	0.03 %	1	0.00 %	57	0.00 %	37 / 171	ENV*
Mitsui Fudosan Co	0.00 %	0.02 %	1	0.00 %	40	0.00 %	17 / 171	ENV*
Mobimo Hldg AG Reg	0.00 %		1	0.00 %	77	0.00 %	N / A	CDP
Morguard REIT	0.00 %		0	0.00 %	58	0.00 %	N / A	TC
MTGE Investment Corp	0.00 %		0	0.00 %	4	0.00 %	N / A	TC
National Retail Properties Inc	0.00 %	0.01 %	0	0.00 %	58	0.00 %	61 / 171	TC
NATIONAL STORAGE REIT	0.00 %	0.02 %	2	0.00 %	147	0.00 %	159 / 171	TC
New World Development Co. Ltd.	0.00 %	0.01 %	5	0.00 %	95	0.00 %	143 / 171	ENV*
Nexity	0.06 %		157	0.02 %	58	0.09 %	N / A	TC
Nippon Building Fund Inc JREIT	0.00 %	0.01 %	0	0.00 %	59	0.00 %	70 / 171	TC
Nippon Prologis REIT Inc	0.00 %	0.00 %	0	0.00 %	59	0.00 %	78 / 171	TC
Nomura Real Estate Holdings	0.00 %	0.00 %	4	0.00 %	61	0.00 %	98 / 171	TC
Nomura Real Estate Master Fund Inc	0.00 %	0.01 %	0	0.00 %	61	0.00 %	97 / 171	TC
Precinct Properties New Zealand Limited	0.00 %		1	0.00 %	61	0.00 %	N / A	TC
ProLogis Inc	0.00 %	0.03 %	0	0.00 %	9	0.00 %	2 / 171	CDP
Propertylink Group	0.05 %	0.02 %	2	0.00 %	61	0.00 %	104 / 171	TC
Public Storage	0.00 %	0.04 %	1	0.00 %	139	0.00 %	154 / 171	TC
Pure Industrial Real Estate Trust	0.01 %		1	0.00 %	58	0.00 %	N / A	TC
Realty Income Corp	0.00 %	0.02 %	0	0.00 %	59	0.00 %	72 / 171	TC
Regency Centers Corp	0.00 %	0.01 %	0	0.00 %	50	0.00 %	25 / 171	PRE



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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
RioCan REIT	0.00 %	0.00 %	0	0.00 %	58	0.00 %	59 / 171	TC
Ryman Hospitality Properties Inc	0.06 %		65	0.01 %	105	0.02 %	N / A	TC
Sabra Health Care REIT	0.04 %		9	0.00 %	67	0.00 %	N / A	TC
Scenter Group	0.09 %	0.76 %	48	0.01 %	118	0.01 %	151 / 171	ENV*
SEGRO Plc	0.00 %	0.01 %	0	0.00 %	58	0.00 %	65 / 171	CDP
Sella Capital Real Estate Ltd.	0.00 %		1	0.00 %	58	0.00 %	N / A	TC
Shimao Property Holdings Ltd.	0.00 %	0.00 %	4	0.00 %	63	0.00 %	114 / 171	TC
Shopping Centers Australasia Property	0.00 %	0.05 %	1	0.00 %	60	0.00 %	86 / 171	TC
Simon Property Group	0.03 %	0.07 %	5	0.00 %	59	0.00 %	82 / 171	PRE
Sino Land Co. Ltd.	0.00 %	0.01 %	1	0.00 %	63	0.00 %	111 / 171	TC
Sino-Ocean Group Holdings Ltd.	0.00 %	0.00 %	1	0.00 %	58	0.00 %	54 / 171	TC
SL Green Realty Corp	0.00 %	0.01 %	1	0.00 %	85	0.00 %	139 / 171	ENV*
Smart REIT	0.00 %	0.00 %	0	0.00 %	58	0.00 %	45 / 171	TC
Stockland	0.07 %	0.37 %	32	0.00 %	62	0.02 %	106 / 171	CDP
Sumitomo Realty & Dev Co	0.00 %	0.01 %	1	0.00 %	66	0.00 %	120 / 171	TC
Sun Hung Kai Properties Ltd.	0.00 %	0.03 %	3	0.00 %	56	0.00 %	34 / 171	TC
Sunland Group Ltd	0.05 %		104	0.01 %	72	0.04 %	N / A	TC
Suntec Real Estate Investment Trust	0.00 %	0.00 %	0	0.00 %	59	0.00 %	68 / 171	TC
Swire Pacific Ltd.	0.00 %	0.01 %	120	0.02 %	1,723	-0.01 %	171 / 171	AR*
Swire Properties Ltd	0.00 %	0.00 %	1	0.00 %	81	0.00 %	137 / 171	ENV*
Swiss Prime Site AG	0.00 %	0.01 %	0	0.00 %	31	0.00 %	11 / 171	ENV
Tokyo Tatemono Co	0.00 %	0.00 %	1	0.00 %	58	0.00 %	58 / 171	TC
Tokyu Fudosan Holdings Corp	0.00 %	0.00 %	4	0.00 %	63	0.00 %	112 / 171	TC
Tritax Big Box REIT Plc	0.01 %		1	0.00 %	58	0.00 %	N / A	TC
UDR Inc	0.00 %	0.01 %	0	0.00 %	58	0.00 %	51 / 171	TC
Unibail - Rodamco	0.00 %	0.03 %	0	0.00 %	30	0.00 %	10 / 171	AR*
Unite Group	0.04 %		36	0.00 %	137	0.01 %	N / A	AR*
United Urban Investment Corp	0.00 %	0.01 %	0	0.00 %	60	0.00 %	83 / 171	TC
UOL Group Limited	0.00 %	0.00 %	1	0.00 %	72	0.00 %	134 / 171	TC
Ventas Inc	0.00 %	0.03 %	3	0.00 %	146	0.00 %	157 / 171	CDP
VEREIT Inc	0.00 %	0.01 %	1	0.00 %	54	0.00 %	30 / 171	TC
Vicinity Centers	0.02 %	0.31 %	14	0.00 %	181	0.00 %	163 / 171	ENV*
Villa World Ltd	0.02 %	0.01 %	51	0.01 %	72	0.02 %	133 / 171	TC
Vonovia SE	0.00 %	0.02 %	0	0.00 %	9	0.00 %	1 / 171	ENV*
Vornado Realty Trust	0.00 %	0.02 %	1	0.00 %	105	0.00 %	146 / 171	ENV*
Welltower Inc	0.00 %	0.03 %	1	0.00 %	39	0.00 %	16 / 171	PRE



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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mnn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Westfield Corporation	0.09 %	0.56 %	23	0.00 %	83	0.01 %	138 / 171	ENV*
Weyerhaeuser Co	0.00 %	0.03 %	11	0.00 %	375	-0.00 %	167 / 171	CDP
Wharf (Holdings) Ltd.	0.00 %	0.01 %	2	0.00 %	63	0.00 %	110 / 171	PRE
Wheelock and Co. Ltd.	0.00 %	0.01 %	4	0.00 %	64	0.00 %	115 / 171	TC
Xenia Hotels & Resorts Inc	0.00 %		1	0.00 %	58	0.00 %	N / A	TC
Xincheng Holding Group Co Ltd	0.01 %		11	0.00 %	59	0.01 %	N / A	TC
<b>Telecommunication Services</b>	<b>3.08 %</b>	<b>3.86 %</b>	<b>2,354</b>	<b>0.32 %</b>	<b>38</b>	<b>2.22 %</b>		
Advanced Info Service PCL	0.09 %	0.01 %	72	0.01 %	76	0.03 %	78 / 92	ENV*
Alibaba Group Holding Ltd	0.05 %	0.15 %	1	0.00 %	16	0.00 %	10 / 92	TC
amaysim Australia Ltd	0.05 %	0.01 %	24	0.00 %	19	0.05 %	37 / 92	TC
America Movil SAB de CV	0.08 %	0.03 %	374	0.05 %	107	0.09 %	88 / 92	ENV*
AT&T Inc	0.06 %	0.31 %	68	0.01 %	50	0.05 %	66 / 92	PRE
Axiata Group Bhd	0.00 %	0.00 %	1	0.00 %	93	0.00 %	86 / 92	ENV
BCE Inc	0.04 %	0.01 %	12	0.00 %	21	0.02 %	45 / 92	PRE
BEZEQ ISRAELI TELECOM CORP	0.00 %	0.00 %	3	0.00 %	65	0.00 %	74 / 92	PRE
Bharti Airtel Ltd	0.05 %	0.01 %	22	0.00 %	19	0.04 %	39 / 92	TC
BT Group	0.00 %	0.04 %	1	0.00 %	12	0.00 %	5 / 92	CDP*
CenturyLink Inc	0.01 %	0.02 %	32	0.00 %	96	0.01 %	87 / 92	CDP
China Communications Services Corporation	0.00 %	0.00 %	1	0.00 %	19	0.00 %	21 / 92	TC
China Mobile Ltd.	0.02 %	0.08 %	30	0.00 %	109	0.01 %	89 / 92	ENV*
China Telecom Corporation Ltd. - H Shares	0.01 %	0.01 %	5	0.00 %	19	0.01 %	22 / 92	TC
China Unicom (Hong Kong) Ltd.	0.01 %	0.01 %	5	0.00 %	19	0.01 %	32 / 92	TC
Chorus Ltd.	0.69 %	0.02 %	261	0.03 %	17	0.58 %	13 / 92	CDP
Chunghwa Telecom Co Ltd	0.03 %	0.02 %	31	0.00 %	93	0.01 %	85 / 92	PRE
Deutsche Telekom	0.01 %	0.07 %	17	0.00 %	45	0.01 %	63 / 92	CDP
Elisa Corporation	0.00 %	0.01 %	1	0.00 %	39	0.00 %	55 / 92	ENV*
Far Eastone Telecommunications Co	0.00 %	0.00 %	1	0.00 %	77	0.00 %	79 / 92	ENV*
Freenet AG	0.00 %		3	0.00 %	19	0.01 %	N / A	TC
Frontier Communications Corp	0.00 %	0.00 %	5	0.00 %	19	0.01 %	30 / 92	TC
Hellenic Telecommunications Organization	0.00 %	0.00 %	1	0.00 %	57	0.00 %	69 / 92	CDP
HKBN Ltd	0.15 %		27	0.00 %	18	0.06 %	N / A	TC
HKT Trust / HKT Ltd	0.01 %	0.01 %	5	0.00 %	19	0.01 %	24 / 92	TC
ILIAD SA	0.00 %	0.01 %	0	0.00 %	9	0.00 %	2 / 92	PRE
Inmarsat	0.00 %	0.01 %	1	0.00 %	17	0.00 %	12 / 92	AR*
KDDI Corp	0.01 %	0.06 %	6	0.00 %	51	0.00 %	67 / 92	CDP



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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Koninklijke KPN NV	0.00 %	0.01 %	1	0.00 %	12	0.00 %	4 / 92	CDP
KT Corp	0.03 %	0.00 %	152	0.02 %	46	0.11 %	65 / 92	CDP
Level 3 Communications	0.00 %	0.02 %	3	0.00 %	64	0.00 %	73 / 92	PRE
LG Uplus Ltd	0.00 %	0.00 %	6	0.00 %	85	0.00 %	82 / 92	CDP*
LINE Corp	0.00 %	0.00 %	0	0.00 %	16	0.00 %	9 / 92	TC
Magyar Telekom	0.02 %		24	0.00 %	22	0.04 %	N / A	CDP
Maxis Bhd	0.00 %	0.00 %	0	0.00 %	19	0.00 %	28 / 92	TC
MegaFon PJSC	0.00 %		2	0.00 %	16	0.00 %	N / A	AR*
Millicom Intl Cellular (Lux)	0.00 %	0.00 %	4	0.00 %	28	0.00 %	47 / 92	CDP
Mobile TeleSystems PJSC	0.00 %	0.01 %	1	0.00 %	18	0.00 %	15 / 92	ENV*
MTN Group Ltd	0.00 %	0.02 %	5	0.00 %	88	0.00 %	83 / 92	CDP
Nippon Tel & Tel Corp	0.07 %	0.04 %	120	0.02 %	46	0.09 %	64 / 92	AR*
NTT DOCOMO	0.01 %	0.04 %	7	0.00 %	39	0.01 %	57 / 92	CDP
Ooredoo	0.00 %	0.00 %	1	0.00 %	19	0.00 %	20 / 92	TC
Orange	0.01 %	0.04 %	10	0.00 %	30	0.01 %	49 / 92	CDP
Orange Polska S.A.	0.00 %	0.00 %	6	0.00 %	124	0.00 %	90 / 92	AR*
PCCW Ltd.	0.00 %	0.00 %	2	0.00 %	18	0.00 %	16 / 92	TC
PLDT Inc	0.00 %	0.00 %	0	0.00 %	19	0.00 %	23 / 92	TC
Proximus	0.00 %	0.01 %	1	0.00 %	11	0.00 %	3 / 92	CDP
Rogers Communications Inc	0.04 %	0.02 %	12	0.00 %	18	0.03 %	14 / 92	PRE
Rostelecom PJSC	0.00 %	0.00 %	6	0.00 %	213	0.00 %	92 / 92	PRE
SBA Communications Corp	0.00 %	0.02 %	0	0.00 %	19	0.00 %	34 / 92	TC
Singapore Telecommunications Ltd	0.00 %	0.03 %	2	0.00 %	38	0.00 %	54 / 92	ENV*
Sistema FC PJSC	0.00 %	0.00 %	25	0.00 %	71	0.01 %	77 / 92	TC
SK Telecom Co Ltd	0.00 %	0.01 %	2	0.00 %	39	0.00 %	56 / 92	CDP
SoftBank Group Corp	0.00 %	0.07 %	1	0.00 %	19	0.00 %	40 / 92	TC
Spark New Zealand Ltd	0.08 %	0.03 %	22	0.00 %	14	0.06 %	6 / 92	CDP
SpeedCast International Ltd	0.00 %	0.02 %	0	0.00 %	19	0.00 %	26 / 92	TC
Sprint Nextel Corp	0.01 %	0.01 %	8	0.00 %	34	0.01 %	51 / 92	CDP
Starhub	0.01 %	0.00 %	3	0.00 %	29	0.00 %	48 / 92	CDP
Swisscom AG ADR	0.00 %	0.01 %	1	0.00 %	8	0.00 %	1 / 92	ENV*
T-Mobile US Inc	0.04 %	0.02 %	21	0.00 %	19	0.04 %	38 / 92	TC
Taiwan Mobile Co Ltd	0.00 %	0.01 %	0	0.00 %	60	0.00 %	71 / 92	PRE
TDC A/S	0.00 %	0.01 %	2	0.00 %	23	0.00 %	46 / 92	ENV*
Tele2 AB	0.00 %	0.00 %	4	0.00 %	43	0.00 %	62 / 92	PRE
Telecom Egypt	0.00 %		4	0.00 %	19	0.01 %	N / A	TC





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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Telecom Italia SpA	0.01 %	0.02 %	5	0.00 %	14	0.01 %	7 / 92	CDP
Telefonica Brasil S.A.	0.00 %	0.01 %	1	0.00 %	89	0.00 %	84 / 92	PRE
Telefonica Deutschland Holding AG	0.00 %	0.00 %	3	0.00 %	39	0.00 %	59 / 92	AR*
Telefonica SA	0.01 %	0.06 %	14	0.00 %	35	0.01 %	52 / 92	PRE
Telekom Austria AG	0.01 %		8	0.00 %	40	0.01 %	N / A	PRE
Telekom Malaysia Bhd	0.02 %	0.00 %	10	0.00 %	20	0.02 %	44 / 92	ENV*
Telekomunikasi Indonesia Tbk PT	0.26 %	0.02 %	49	0.01 %	19	0.10 %	33 / 92	TC
Telenor ASA	0.01 %	0.02 %	22	0.00 %	67	0.01 %	75 / 92	AR*
Telephone & Data Systems Inc	0.00 %		0	0.00 %	19	0.00 %	N / A	TC
Telia Company AB	0.00 %	0.01 %	3	0.00 %	35	0.00 %	53 / 92	CDP
Telstra Corp Ltd	0.79 %	1.80 %	689	0.09 %	55	0.41 %	68 / 92	PRE
Tim Participacoes	0.00 %	0.00 %	1	0.00 %	15	0.00 %	8 / 92	CDP
Total Access Communication PCL	0.00 %		0	0.00 %	19	0.00 %	N / A	TC
TPG Telecom Ltd	0.01 %	0.07 %	2	0.00 %	20	0.00 %	42 / 92	TC
Turk Telekomunikasyon AS	0.00 %	0.00 %	3	0.00 %	70	0.00 %	76 / 92	PRE
Turkcell Iletisim Hizmet AS	0.00 %	0.00 %	0	0.00 %	43	0.00 %	61 / 92	PRE
US Cellular Corp	0.00 %		6	0.00 %	27	0.01 %	N / A	TC
VEON Ltd ADR	0.00 %		8	0.00 %	93	0.00 %	N / A	ENV*
Verizon Communications Inc	0.02 %	0.25 %	14	0.00 %	40	0.01 %	60 / 92	PRE
Vocus Group Limited	0.16 %	0.09 %	32	0.00 %	19	0.06 %	36 / 92	TC
Vodacom Group Ltd	0.00 %	0.01 %	1	0.00 %	58	0.00 %	70 / 92	CDP
Vodafone Group	0.01 %	0.09 %	17	0.00 %	39	0.02 %	58 / 92	CDP
Windstream Holdings Inc	0.00 %		1	0.00 %	19	0.00 %	N / A	TC
Zayo Group Holdings Inc	0.00 %	0.01 %	0	0.00 %	19	0.00 %	35 / 92	TC
<b>Utilities</b>	<b>1.99 %</b>	<b>2.95 %</b>	<b>132,653</b>	<b>17.75 %</b>	<b>2,304</b>	<b>-15.81 %</b>		
A2A SpA	0.00 %		35	0.00 %	1,215	-0.00 %	N / A	CDP
Acciona SA	0.00 %		3	0.00 %	85	0.00 %	N / A	CDP
AES Corp	0.00 %	0.01 %	1,055	0.14 %	3,450	-0.13 %	103 / 134	CDP
AGL Energy Ltd	0.41 %	0.59 %	37,314	4.99 %	4,207	-4.65 %	113 / 134	ENV*
Alliant Energy Corp	0.00 %	0.01 %	189	0.03 %	5,121	-0.02 %	120 / 134	PRE
Alpiq Holding AG	0.00 %		82	0.01 %	605	-0.01 %	N / A	AR*
Ameren Corp	0.00 %	0.02 %	252	0.03 %	3,636	-0.03 %	105 / 134	PRE
American Electric Power	0.00 %	0.04 %	473	0.06 %	5,384	-0.06 %	122 / 134	CDP
American Water Works Co Inc	0.00 %	0.02 %	3	0.00 %	161	0.00 %	18 / 134	PRE
APA Group	0.02 %	0.33 %	29	0.00 %	309	-0.00 %	33 / 134	CDP



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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Atco Ltd I Nvtg	0.02 %	0.00 %	1,004	0.13 %	2,353	-0.12 %	83 / 134	PRE
Atmos Energy Corp	0.00 %	0.01 %	14	0.00 %	332	-0.00 %	36 / 134	TC
AusNet Services Ltd	0.46 %	0.10 %	5,650	0.76 %	1,031	-0.54 %	61 / 134	PRE
BKW SA	0.01 %		62	0.01 %	226	0.00 %	N / A	AR*
Calpine Corporation	0.00 %	0.00 %	519	0.07 %	5,116	-0.07 %	119 / 134	AR*
Canadian Utilities Ltd A Nvtg	0.00 %	0.00 %	63	0.01 %	3,081	-0.01 %	96 / 134	ENV*
Centerpoint Energy Inc	0.00 %	0.01 %	30	0.00 %	351	-0.00 %	37 / 134	PRE
Centrais Elet de Santa Catalina SA	0.00 %		14	0.00 %	61	0.01 %	N / A	ENV*
Centrica	0.00 %	0.02 %	54	0.01 %	126	0.01 %	11 / 134	CDP
CEZ-Ceske Energeticke Zavody	0.03 %	0.00 %	2,765	0.37 %	2,870	-0.33 %	92 / 134	AR
China Resources Power Holdings Co. Ltd.	0.00 %	0.00 %	1,713	0.23 %	12,417	-0.22 %	131 / 134	PRE
Chubu Electric Power Co	0.01 %	0.01 %	907	0.12 %	2,158	-0.10 %	78 / 134	AR*
Chugoku Electric Power Co Inc	0.00 %	0.00 %	403	0.05 %	2,717	-0.05 %	91 / 134	AR*
Cia Energetica de Minas Gerais	0.00 %	0.00 %	14	0.00 %	127	0.00 %	12 / 134	CDP
Cia Energetica do Ceara	0.00 %		5	0.00 %	156	0.00 %	N / A	TC
Cia Saneamento Basico De Sp	0.00 %	0.00 %	2	0.00 %	287	0.00 %	32 / 134	PRE
CK Infrastructure Holdings Ltd	0.00 %	0.01 %	8	0.00 %	1,136	-0.00 %	62 / 134	TC
CLP Holdings Ltd.	0.04 %	0.02 %	1,889	0.25 %	3,443	-0.23 %	102 / 134	CDP
CMS Energy Corp	0.00 %	0.02 %	116	0.02 %	1,997	-0.01 %	73 / 134	PRE
Companhia Paranaense de Energia	0.00 %	0.00 %	8	0.00 %	187	0.00 %	22 / 134	CDP
Consolidated Edison Inc	0.00 %	0.03 %	22	0.00 %	271	0.00 %	30 / 134	ENV
Contact Energy Ltd	0.03 %	0.00 %	525	0.07 %	659	-0.04 %	52 / 134	AR
Cosan Limited	0.00 %		7	0.00 %	108	0.00 %	N / A	TC
CPFL Energia SA	0.00 %	0.00 %	6	0.00 %	167	0.00 %	20 / 134	AR*
Datang International Power Generation Co	0.00 %		500	0.07 %	12,351	-0.07 %	N / A	AR*
Dominion Energy Inc	0.00 %	0.06 %	80	0.01 %	3,301	-0.01 %	97 / 134	PRE
Dong Energy AS	0.00 %	0.01 %	3	0.00 %	528	-0.00 %	48 / 134	ENV*
Drax Group	0.01 %		1,946	0.26 %	3,355	-0.24 %	N / A	AR*
DTE Energy Co	0.00 %	0.02 %	231	0.03 %	2,876	-0.03 %	93 / 134	PRE
DUET Group	0.02 %	0.23 %	117	0.02 %	840	-0.01 %	56 / 134	AR*
Duke Energy Corp	0.01 %	0.07 %	332	0.04 %	3,311	-0.04 %	98 / 134	ENV*
E.ON SE	0.01 %	0.02 %	142	0.02 %	193	0.01 %	24 / 134	PRE
Edison Intl	0.00 %	0.03 %	12	0.00 %	167	0.00 %	21 / 134	ENV*
Electric Power Development Co	0.00 %	0.00 %	404	0.05 %	7,525	-0.05 %	128 / 134	ENV
Electricidade de Portugal SA	0.00 %	0.01 %	140	0.02 %	941	-0.01 %	59 / 134	AR*
Electricite de France	0.01 %	0.00 %	385	0.05 %	519	-0.02 %	47 / 134	AR*



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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Emera Inc	0.00 %	0.00 %	14	0.00 %	3,952	-0.00 %	109 / 134	CDP
Enagas SA	0.00 %	0.01 %	4	0.00 %	328	-0.00 %	35 / 134	OTH
Endesa SA	0.01 %	0.01 %	339	0.05 %	1,304	-0.03 %	65 / 134	ENV*
Enel Americas S.A.	0.03 %	0.01 %	811	0.11 %	1,434	-0.09 %	68 / 134	AR*
Enel Chile S.A.	0.01 %	0.00 %	244	0.03 %	893	-0.02 %	57 / 134	AR*
Enel Generacion Chile S.A.	0.00 %	0.00 %	39	0.01 %	4,048	-0.00 %	111 / 134	AR*
Enel SpA	0.01 %	0.04 %	676	0.09 %	1,159	-0.07 %	64 / 134	ENV*
Energiedienst Holding AG Reg	0.07 %		64	0.01 %	19	0.12 %	N / A	TC
Engie	0.01 %	0.03 %	1,122	0.15 %	1,364	-0.12 %	67 / 134	CDP
ENGIE Brasil Energia S.A.	0.00 %	0.00 %	15	0.00 %	2,362	-0.00 %	84 / 134	ENV*
Entergy Corp	0.00 %	0.02 %	298	0.04 %	2,479	-0.04 %	87 / 134	ENV*
ERM Power Ltd	0.00 %	0.01 %	1,966	0.26 %	3,432	-0.24 %	101 / 134	AR*
Eversource Energy	0.00 %	0.02 %	17	0.00 %	398	-0.00 %	44 / 134	CDP
EVN-Energie Versorgung Nieder AG	0.00 %		53	0.01 %	1,187	-0.01 %	N / A	AR
Exelon Corp	0.01 %	0.04 %	74	0.01 %	365	-0.00 %	38 / 134	PRE
Federal Hydrogenerating Co (RusHydro)	0.00 %	0.00 %	269	0.04 %	4,778	-0.03 %	117 / 134	CDP
FirstEnergy Corp	0.00 %	0.02 %	454	0.06 %	2,899	-0.05 %	94 / 134	PRE
Fortis Inc	0.00 %	0.02 %	74	0.01 %	2,565	-0.01 %	90 / 134	TC
Fortum Oyj	0.00 %	0.01 %	121	0.02 %	3,930	-0.02 %	108 / 134	CDP
Gas Natural SDG SA	0.00 %	0.01 %	144	0.02 %	697	-0.01 %	53 / 134	PRE
Genesis Energy Limited	0.10 %		4,118	0.55 %	1,314	-0.43 %	N / A	AR*
HK Electric Investments Ltd	0.00 %	0.00 %	41	0.01 %	4,643	-0.01 %	115 / 134	CDP
Hokkaido Gas Co Ltd	0.00 %		86	0.01 %	334	-0.00 %	N / A	TC
Hokuriku Electric Power Co	0.00 %	0.00 %	362	0.05 %	3,430	-0.04 %	100 / 134	AR
Hong Kong and China Gas Co Ltd	0.00 %	0.02 %	3	0.00 %	264	0.00 %	28 / 134	AR*
Huaneng Power International Inc	0.00 %	0.00 %	2,256	0.30 %	11,173	-0.29 %	129 / 134	ENV*
Hydro One Limited	0.00 %	0.00 %	2	0.00 %	137	0.00 %	15 / 134	TC
Iberdrola SA	0.03 %	0.05 %	477	0.06 %	655	-0.03 %	50 / 134	ENV*
Infigen Energy	0.00 %	0.03 %	0	0.00 %	36	0.00 %	4 / 134	CDP*
Infratil Ltd	0.02 %		66	0.01 %	99	0.02 %	N / A	TC
Innogy SE	0.00 %	0.01 %	5	0.00 %	163	0.00 %	19 / 134	TC
Kansai Electric Power Co Inc	0.00 %	0.01 %	461	0.06 %	1,831	-0.05 %	72 / 134	AR*
Korea Elec Power Corp	0.11 %	0.01 %	34,829	4.66 %	4,537	-4.37 %	114 / 134	AR*
Korea Gas Corp	0.00 %	0.00 %	35	0.00 %	111	0.01 %	8 / 134	ENV*
Kyushu Electric Power Co Inc	0.00 %	0.01 %	418	0.06 %	2,329	-0.05 %	82 / 134	AR
Manila Electric Co	0.01 %		40	0.01 %	134	0.01 %	N / A	TC



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# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mnn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Manila Water Co Inc	0.08 %		157	0.02 %	210	0.01 %	N / A	AR
Mercury NZ Limited	0.02 %	0.00 %	131	0.02 %	401	-0.00 %	45 / 134	AR*
Meridian Energy Ltd	0.03 %	0.00 %	24	0.00 %	56	0.01 %	5 / 134	TC
MVV Energie AG	0.00 %		47	0.01 %	730	-0.00 %	N / A	AR
National Grid PLC	0.00 %	0.06 %	32	0.00 %	396	-0.00 %	43 / 134	CDP
NextEra Energy Inc	0.00 %	0.07 %	99	0.01 %	2,078	-0.01 %	76 / 134	PRE
Nisource Inc	0.00 %	0.01 %	125	0.02 %	2,434	-0.01 %	86 / 134	PRE
NRG Energy	0.03 %		7,889	1.06 %	4,055	-0.98 %	N / A	ENV*
NTPC Ltd	0.00 %	0.01 %	538	0.07 %	15,565	-0.07 %	132 / 134	AR*
OGE Energy Corp	0.00 %	0.01 %	216	0.03 %	5,904	-0.03 %	126 / 134	PRE
Osaka Gas Co	0.00 %	0.01 %	57	0.01 %	451	-0.00 %	46 / 134	AR*
Perusahaan Gas Negara PT	0.00 %	0.00 %	1	0.00 %	100	0.00 %	7 / 134	ENV*
PG&E Corporation	0.00 %	0.04 %	25	0.00 %	283	0.00 %	31 / 134	CDP
Pinnacle West Capital (AZ)	0.00 %	0.01 %	97	0.01 %	2,271	-0.01 %	80 / 134	ENV
Polska Grupa Energetyczna SA	0.00 %	0.00 %	307	0.04 %	5,797	-0.04 %	125 / 134	AR
Power Assets Holdings Ltd	0.00 %	0.01 %	21	0.00 %	37,363	-0.00 %	134 / 134	AR*
PPL Corp	0.00 %	0.03 %	148	0.02 %	3,312	-0.02 %	99 / 134	PRE
Public Power Corp	0.00 %		905	0.12 %	4,074	-0.11 %	N / A	AR
Public Service Enterprise Grp	0.00 %	0.03 %	70	0.01 %	1,138	-0.01 %	63 / 134	PRE
Red Electrica Corporacion SA	0.00 %	0.01 %	5	0.00 %	318	-0.00 %	34 / 134	CDP
Redes Energeticas Nacionais	0.01 %		26	0.00 %	196	0.00 %	N / A	TC
RWE AG	0.01 %	0.01 %	2,578	0.34 %	2,235	-0.30 %	79 / 134	ENV*
SCANA Corp	0.00 %	0.01 %	139	0.02 %	3,056	-0.02 %	95 / 134	PRE
Scottish & Southern Energy	0.03 %	0.02 %	759	0.10 %	372	-0.02 %	39 / 134	CDP
Sempra Energy	0.00 %	0.03 %	24	0.00 %	659	-0.00 %	51 / 134	CDP
Severn Trent	0.00 %	0.01 %	5	0.00 %	148	0.00 %	17 / 134	CDP*
Snam Rete Gas SpA	0.00 %	0.01 %	11	0.00 %	386	-0.00 %	41 / 134	CDP
Southern Co	0.01 %	0.06 %	314	0.04 %	4,107	-0.04 %	112 / 134	PRE
Spark Infrastructure Trust	0.10 %	0.13 %	1,098	0.15 %	4,648	-0.14 %	116 / 134	PRE
Suez SA	0.00 %	0.01 %	98	0.01 %	377	-0.00 %	40 / 134	CDP
Tauron Polska Energia SA	0.00 %	0.00 %	210	0.03 %	2,545	-0.02 %	89 / 134	AR*
Tenaga Nasional Bhd	0.02 %	0.01 %	1,034	0.14 %	2,487	-0.12 %	88 / 134	AR*
Terna SpA	0.00 %	0.01 %	7	0.00 %	610	-0.00 %	49 / 134	ENV*
Toho Gas Co	0.00 %	0.00 %	6	0.00 %	123	0.00 %	9 / 134	OTH
Tohoku Electric Power Co	0.01 %	0.01 %	952	0.13 %	2,072	-0.11 %	75 / 134	OTH
Tokyo Electric Power Co. Holding Inc.	0.01 %	0.01 %	3,407	0.46 %	1,310	-0.35 %	66 / 134	PRE



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ESG Analysis

# Carbon Footprint

## Company Breakdown

### Portfolio

Company details	Weighting		Carbon Apportioned		Carbon Intensity (tCO <sub>2</sub> e/A\$mnn)	Carbon Footprint Contribution (%)*	Footprint Rank in Benchmark Sector **	Data Source ***
	Portfolio	Benchmark	Tonnes CO <sub>2</sub> e	% of Portfolio's Total Carbon Apportioned				
Tokyo Gas Co	0.01 %	0.01 %	87	0.01 %	214	0.00 %	25 / 134	CDP*
UGI Corp	0.00 %	0.01 %	21	0.00 %	386	-0.00 %	42 / 134	TC
Uniper SE	0.00 %		495	0.07 %	1,606	-0.05 %	N / A	ENV
United Utilities Group Plc	0.00 %	0.01 %	3	0.00 %	130	0.00 %	13 / 134	CDP*
Vector Ltd	0.00 %		2	0.00 %	119	0.00 %	N / A	TC
Veolia Environnement	0.00 %	0.01 %	340	0.05 %	937	-0.03 %	58 / 134	CDP
VERBUND AG	0.00 %		7	0.00 %	478	-0.00 %	N / A	CDP
WEC Energy Group Inc	0.00 %	0.02 %	176	0.02 %	3,986	-0.02 %	110 / 134	PRE
Westar Energy Inc	0.00 %	0.01 %	107	0.01 %	5,132	-0.01 %	121 / 134	AR*
Xcel Energy Inc	0.00 %	0.03 %	244	0.03 %	3,615	-0.03 %	104 / 134	OTH
YTL Corp Bhd	0.00 %	0.00 %	27	0.00 %	1,722	-0.00 %	69 / 134	TC
YTL Power International Bhd	0.00 %	0.00 %	55	0.01 %	3,754	-0.01 %	106 / 134	TC
<b>Portfolio Total</b>	<b>100.00 %</b>	<b>97.23 %</b>	<b>747,175</b>	<b>100.00 %</b>	<b>300</b>			

Note that the weighting for the benchmark will not always total 100% as the stocks shown are only for those held by the portfolio.

\* The Carbon Footprint Contribution is the percentage decrease in performance between what the Carbon Footprint of the portfolio would be without the holding and what the Carbon Footprint is currently. This is a measurement of how much a specific holding reduces the carbon performance of the portfolio.

\*\* Footprint rank in benchmark sector - A ranking of one indicates that the stock has the lowest carbon footprint among the stocks in the benchmark sector. An entry of N/A indicates that the stock is not a member of the benchmark.

\*\*\* Definitions of the Data Sources may be found in section 5 of this report.



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# Carbon Footprint

## 9 Next Steps

### Make portfolio adjustments

- Reduce risk by rebalancing holdings to favour companies with greater carbon or environmental efficiency relative to sector peers.

### Embed environmental analysis into your investment strategy

- Trucost provides standardized data on all companies across the investment universe to help identify carbon and environmental opportunities. We also have time series data and can customize research to meet your requirements.

### Engage with companies

- The chart on page 8 shows companies with which you may choose to engage with to encourage them to disclose better environmental data, providing greater transparency for investors and setting them on the course to appropriate measurement and management of GHG emissions.

### WHY CHOOSE TRUCOST DATA?

**Standardized:** company disclosed data is standardized to enable comparison between companies, funds, sectors and geographies.

**Validated:** company disclosed data is validated to resolve reporting errors.

**Comprehensive:** where companies do not measure or disclose data, Trucost 'fills the gaps' using its advanced environmental profiling model to provide complete data across the investment universe.

**Proven:** Trucost data has been used to analyze over \$2.7trillion AUM and drives \$583million in investment products that deliver financial performance with up to 50% reduced carbon intensity e.g. S&P US Carbon Efficient Index and the Legal and General Investment Management US Carbon Optimised Index Fund.

"Trucost's global environmental impact data has enabled us to truly integrate climate change analysis into our investment process. The quantitative data is fed into our mainstream investment decision making process enabling risk management, portfolio footprinting, sector and stock level analysis and the simulation of climate change strategies across asset classes."

### AXA Investment Managers

### Communicate your footprint to stakeholders

- You may choose to communicate your footprint to stakeholders to demonstrate that you actively consider carbon exposure in your investments and provide transparency about the risk exposure or benefits of the fund.

### Invest in carbon optimised funds

- Trucost's carbon and natural capital investment metrics drive investment indices and products from leading institutions that deliver financial performance alongside reduced environmental risk. Find out more at [www.trucost.com/capital-markets/investment-products](http://www.trucost.com/capital-markets/investment-products)

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