

Sustainable Businesses

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Sustainable Investing

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Take the 21x challenge



Act Now: Tell Your Provider to Go Green

Making your pension green is 21x more powerful than giving up flying, going veggie and switching energy provider. So why not turbo charge your impact today?

Select your provider from the list below, and tell them to go green. It's the most powerful thing you can do for the planet.

Select your pension provider ▼

Cookies Policy

Make My Money Matter says:

“Making your pension green is 21 times more powerful than giving up flying, going veggie and switching energy provider”

Carbon Footprint of Notional Pension Fund of £500,000

		<i>Carbon</i>	<i>Market</i>	<i>Pension</i>	<i>Pension</i>	<i>Net Zero</i>		<i>Implied</i>	
<i>Rank</i>	<i>Company</i>	<i>Emissions</i>	<i>Value</i>	<i>Value</i>	<i>Emissions</i>	<i>Target</i>	<i>ESG</i>	<i>Temp Rise</i>	
		<i>(Tonnes m)</i>	<i>(£bn)</i>	<i>(£000)</i>	<i>(Tonnes)</i>		<i>Rating *</i>	<i>(Degrees C) *</i>	
1	Unilever	0.8	153.0	85.1	0.4	2030	AA	1.78	
2	BHP	16.0	115.0	64.0	8.9	2050	A	>4.00	
3	Shell	75.0	111.0	61.7	41.7	2050	AA	2.72	
4	RTZ	32.0	100.0	55.6	17.8	2050	A	>4.00	
5	Astrazeneca	0.2	91.0	50.6	0.1	2025	AA	1.30	
6	HSBC	0.4	87.0	48.4	0.2	2030	AA	1.87	
7	Diageo	0.7	66.0	36.7	0.4	2030	AAA	1.59	
8	GSK	1.0	60.0	33.4	0.6	2030	AA	1.30	
9	BP	55.0	59.0	32.8	30.6	2050	A	3.11	
10	BAT	0.3	57.0	31.7	0.2	2030	BBB	1.63	
			899.0	500.0	100.9				
* MSCI	ESG Ratings & Climate Search Tool								

Ben Goodare

Head of Sustainability

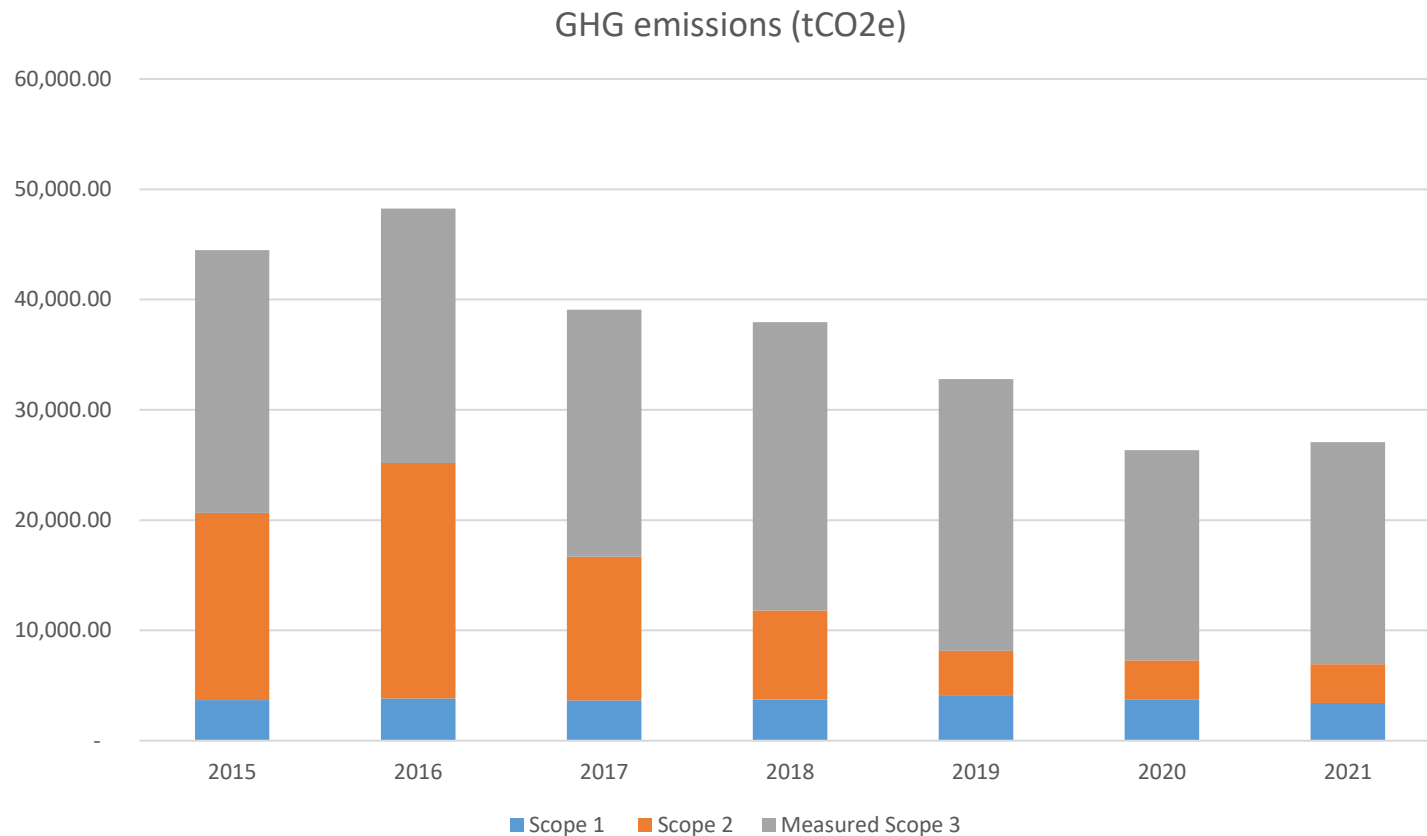
Renishaw plc

Our Sustainability Journey





Renishaw's greenhouse gas (GHG) emissions

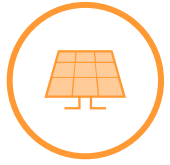


(Notes: tCO₂e = tonnes of Carbon Dioxide equivalent; Years are financial years – July to June)

Since 2015 we have achieved:

- **Scope 1**
7% decrease in emissions
- **Scope 2**
79% decrease in emissions
- **Scope 3***
15% decrease in emissions
- **Overall**
39% decrease in emissions

* Measured scope 3 emissions



Investing in sustainable energy

- **80% of our total energy use is now from renewable energy:**
- Since 2014 we have installed solar panels at nine of our global sites, with projects planned for 2 more sites this calendar year.
- In our 2021 financial year (July 2022 to June 2021) we generated over 4 million kWh, which is 11% of our electricity needs.
- Since 2017 we have been moving our purchased electricity to certified renewable electricity.
- In our 2021 financial year, 69% of our electricity needs were met through certified renewable electricity.



Solar panels on the Renishaw Innovation Centre at our UK HQ site



Targeting zero waste to landfill



Briquetting system in use at a Renishaw machine shop

- In FY21 we sent less than 350 tonnes of waste to landfill from our global operations. This is just over 9% of our waste.
- 5%, or 170 tonnes was redirected from our waste streams and reused in a closed loop system. We are looking at ways to further this closed loop reuse.
- On average, our manufacturing sites send 0.1 tonne of waste per site per month to landfill.
- In 2005 we installed our first briquetting equipment to ensure that waste swarf from our machine shop is 100% recycled.
- We have established a waste champions team across our manufacturing services division who focus on ways to reduce waste.



A sustainable future



- **We are committed to a Net Zero 2050 target which will be validated and monitored by the SBTi (Science Based Target initiative), an international body that defines/promotes best practice in emissions reductions and Net Zero targets in line with climate science.**
- We are also considering becoming carbon neutral through offsetting our current emissions
- As part of this commitment, we will also report against the UN's Sustainable Development Goals (SDGs)

We are looking at projects to quantify the carbon footprint of our products, whilst simultaneously reducing virgin materials, looking at closed loop packaging systems and have established a Design for Circularity team.

Our products help our customers with their own Net Zero ambitions by reducing energy consumption and minimising waste.

- The products help reduce unproductive machine time, eliminate the manufacture of scrap components, and reduce the total energy consumption needed to produce the same level of components.



Appendix



Definitions of key terms

- **Net Zero**
Net Zero emissions are reached when the emissions of greenhouse gases to the atmosphere caused by human activity are balanced by removals of those emissions over a specified period. For organisations this means c.10% of base year emissions by 2050 at the latest; residual emissions are sequestered at the point of Net Zero.
- **Greenhouse gases (GHGs)**
those gases in the atmosphere that cause the 'greenhouse effect'. The main greenhouse gases are carbon dioxide (CO₂), methane and nitrous oxide.
- **Carbon Neutral**
making or resulting in no net release of carbon dioxide into the atmosphere, especially as a result of carbon offsetting.
- **Carbon offsetting**
the action or process of compensating for carbon dioxide emissions arising from industrial or other human activity, by participating in schemes designed to make equivalent reductions of carbon dioxide in the atmosphere.
- **Carbon sequestration**
the process of capturing and storing atmospheric carbon dioxide.
- **Scope 1 emissions**
direct GHG emissions from owned or controlled sources (fuels burnt) (more detail on slide 8).
- **Scope 2 emissions**
indirect GHG emissions from the generation of purchased electricity, steam, heating and cooling (more detail on slide 8).
- **Scope 3 emissions**
all other indirect GHG emissions that occur in our value chain because of our business activities (more detail on slide 8).
- **SBTi**
Science Based Target initiative – international body that defines/promotes best practice in emissions reductions and Net Zero targets in line with climate science.
- **SDG**
Sustainable Development Goals - the United Nation's blueprint to achieve a better and more sustainable future for all. SDGs address the global challenges we face, including poverty, inequality, climate change, environmental degradation, peace and justice.
- **DfCF**
Design for Circularity Forum – a cross divisional group within Renishaw which will support the sharing of best practice for sustainable design of our products.



Sustainable Development Goals (SDG)

The 2030 Agenda for Sustainable Development, adopted by all United Nations Member States in 2015, provides a shared blueprint for peace and prosperity for people and the planet, now and into the future.

At its heart are the 17 Sustainable Development Goals (SDGs), which are an urgent call for action by all countries - developed and developing - in a global partnership.

They recognize that ending poverty and other deprivations must go hand-in-hand with strategies that improve health and education, reduce inequality, and spur economic growth – all while tackling climate change and working to preserve our oceans and forests.

Committing to a SBTi Net Zero target also commits us to reporting against these SDGs.

[THE 17 GOALS | Sustainable Development \(un.org\)](https://www.un.org/sustainabledevelopment/)



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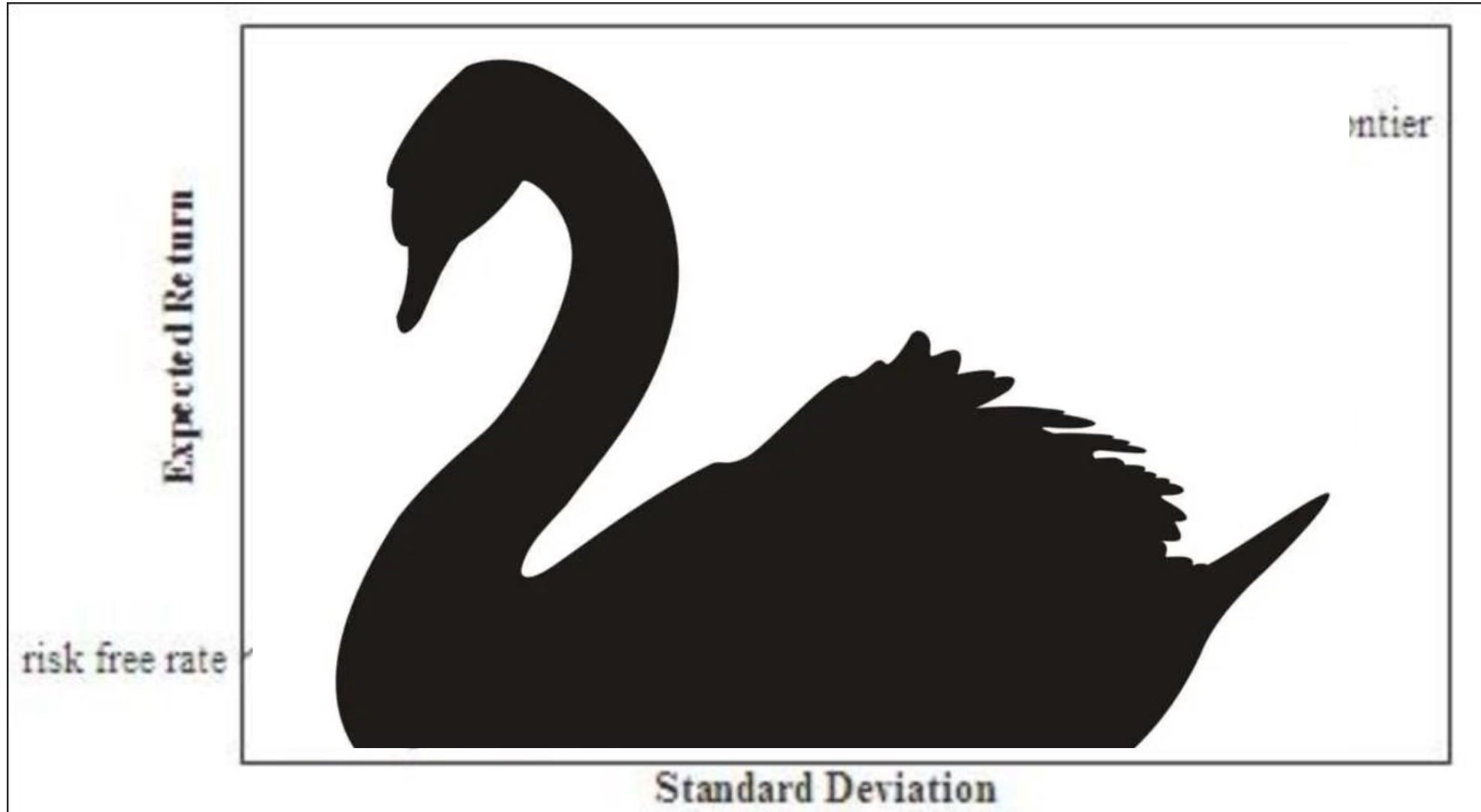
Investing for impact

This presentation is for informational purposes only and should not be relied upon as Investment Advice.


If you have any questions regarding any of the investments mentioned in this presentation, please seek advice from a regulated financial advisor.

Capital At Risk

Risk vs Return



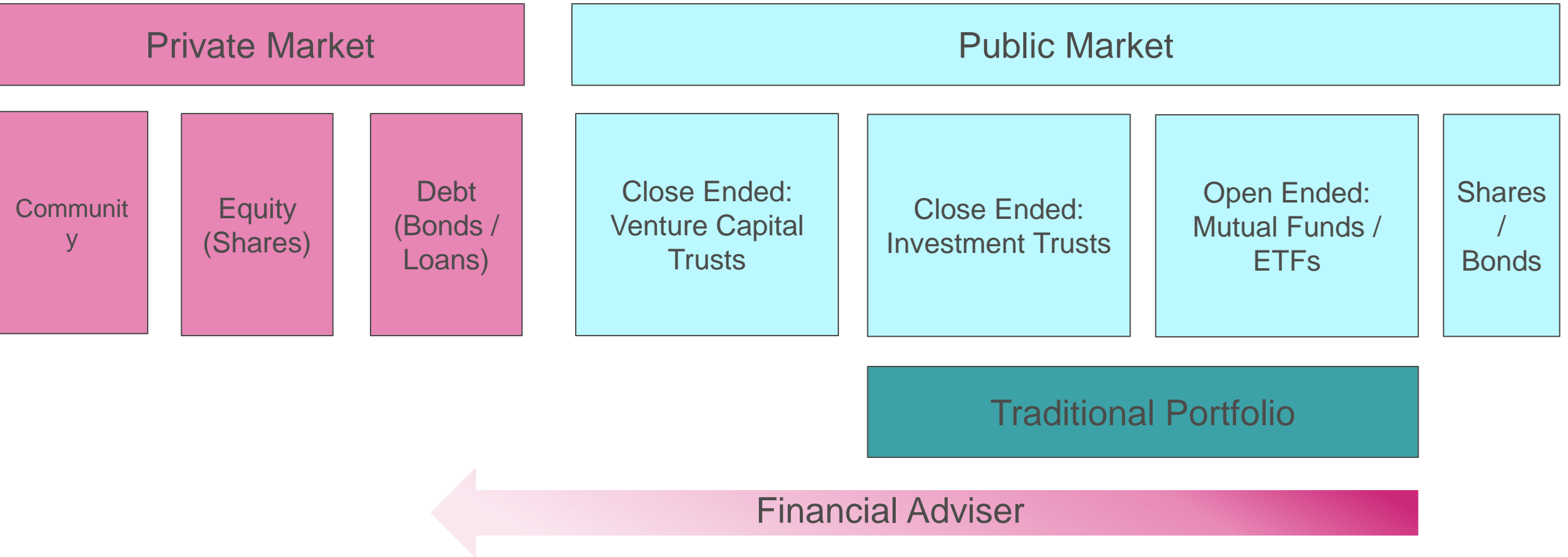
CAPITAL AT RISK. INVESTMENTS ARE LONG TERM AND MAY NOT BE READILY REALISABLE. ABUNDANCE IS AUTHORISED AND REGULATED BY THE FINANCIAL CONDUCT AUTHORITY (525432).



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Open Ended Funds: Mutual & ETFs

What are they:

A vehicle which tends to buy a portfolio of existing shares or bonds from listed companies, based on a theme, sector or geographic focus.

How do they create impact:

- Fund Manager / Fund House via engagement strategy with companies they invest in
- Increasing the share price of the underlying companies meaning they can more efficiently capitalise their business. (Evidence is not strong though)

Examples:

- **Wheb Sustainability Fund**
- **NN Investment Partners (Green Bond Fund)** – Brazil “forestry bond”
- **Montannaro Better World (small / mid cap)** – Project NetZero 2030
- **91 Global Environment Fund** – CO2 reporting / engagement with Indian and Chinese companies on carbon reporting

Risks: market, manager and thematic

Investment Trusts (REITs / Yield Cos)

What are they:

A fund that raises a fixed amount of money, to invest into a theme. Used by infrastructure funds such as renewable energy funds.

How do you create impact:

- Buying on secondary market supports share price and helps them raise money to invest into projects. Some trusts develop their own projects while others buy from developers.
- Primary offers can fund new projects more directly.

Examples:

- **Greencoat UK Wind**
- **Gore Street Energy Storage**
- **Atrato Onsite Energy**
- **Thomas Lloyd Energy**
- **Access via PrimaryBid**

Risks: energy prices, tax, market & manager



Private Market: Crowdfunding

What is it:

Investing direct into individual private companies, organizations or councils either through buying shares (companies) or lending money via bonds or loans.

How do you create impact:

- Supporting the creation of early-stage businesses and projects. The hardest stage of development.

Making new things happen.

Risks: project company or council risk

Examples:

- **Triodos Crowdfunding**
 - Community Energy
 - Charities
- **Ethex**
 - Community Energy
 - Community Ventures
- **Abundance Investment**
 - Green Municipal Finance (Cotswold District Council)
 - Net Zero Infrastructure

Questions

A Fossil Fuel Free Portfolio or divestment - is that a good thing?

Is investing in arms now an ethical investment?

What is a low carbon portfolio or an ESG portfolio?