

CARNOT EFFICIENT RESOURCES

IMPACT REPORT 2022

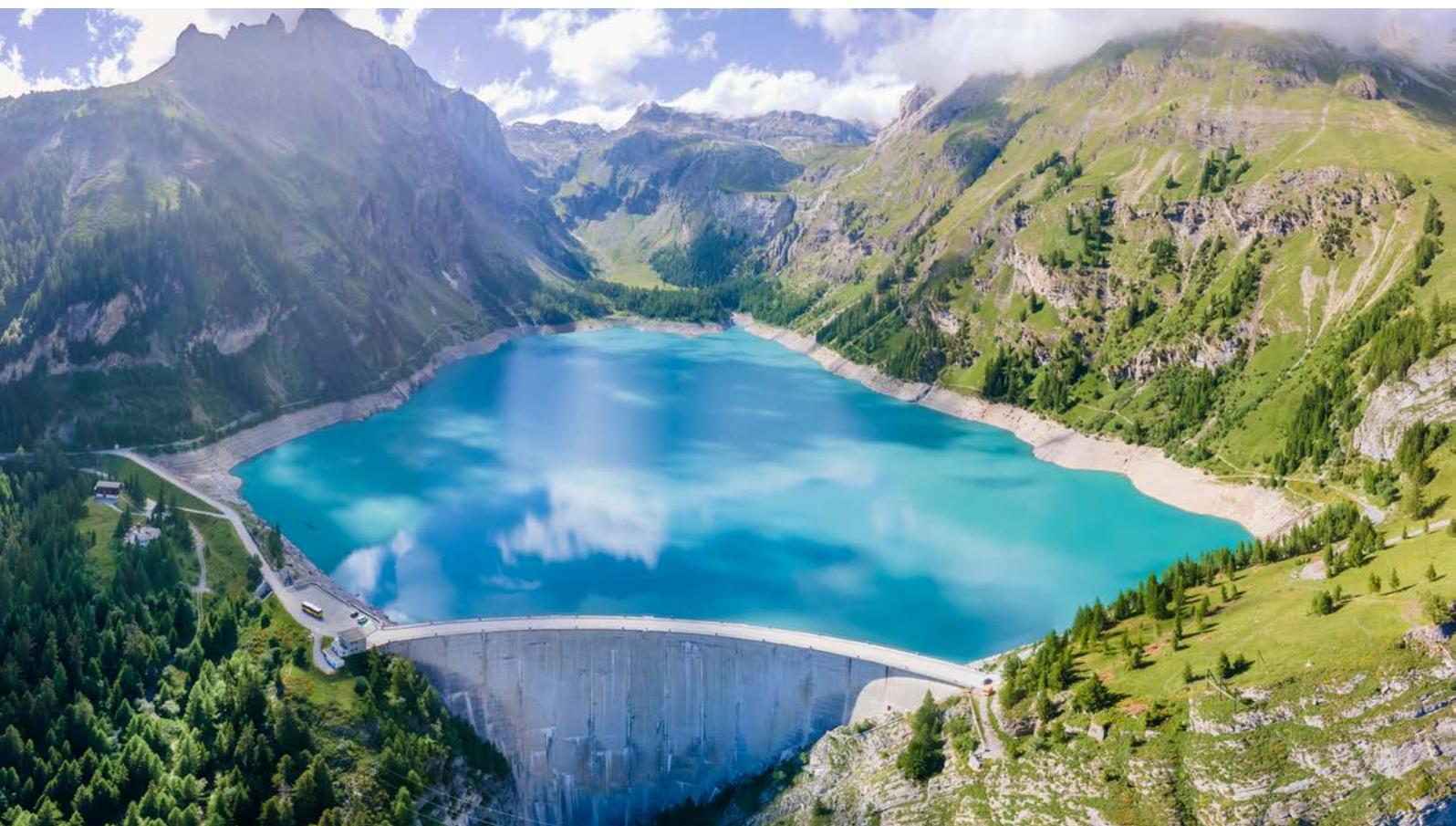


In cooperation with:



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CARNOT EFFICIENT RESOURCES

The Carnot Efficient Resources Fund is an Impact investment fund that invests in listed equities. The companies represented in the fund develop and produce products and technologies that reduce the consumption of natural resources and reach people around the world. In addition to the financial return, the fund investor, as co-owner of the portfolio companies, has a substantial positive effect in terms of the UN's sustainable development goals. This impact report aims to illustrate and quantify this effect.

The new disclosure requirements on sustainability in the financial services sector (SFDR, Sustainable Finance Disclosure Regulation) and the nomenclature regarding sustainability (EU taxonomy) require an addition to the Carnot Impact Report. We now disclose the share of taxonomy-compliant sales of the companies in the fund and include the adverse sustainability impacts (PAI, Principal Adverse Impacts) in the SDG mapping.

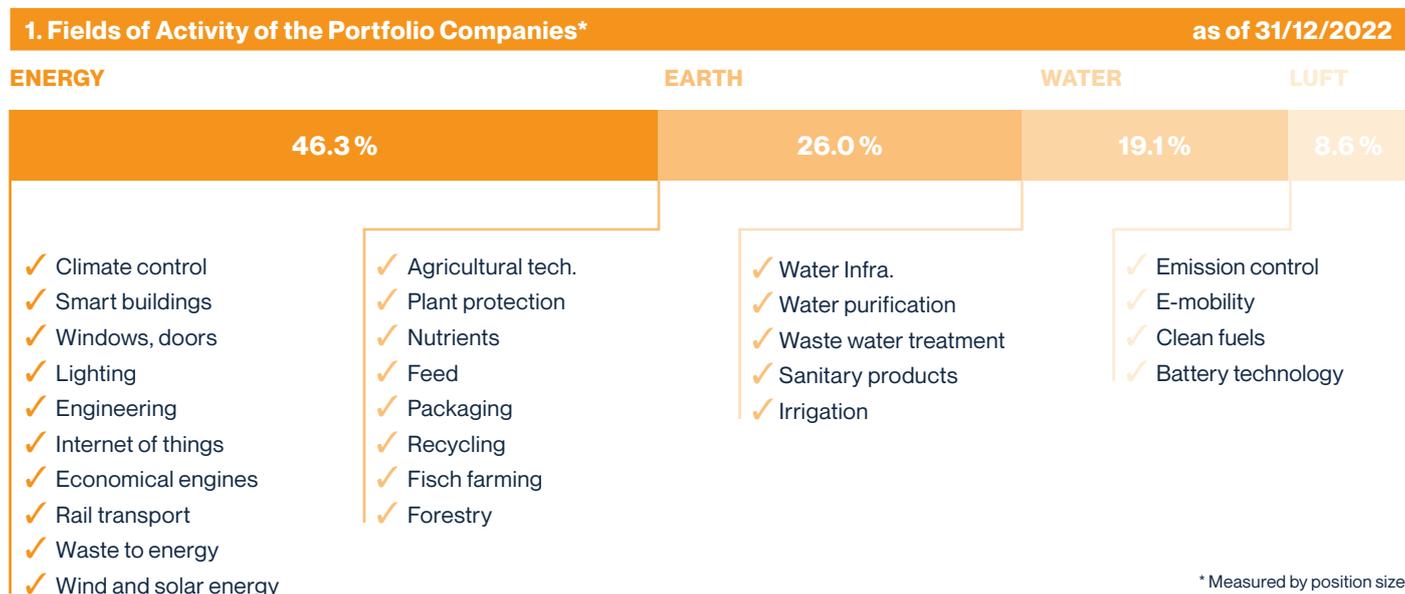
Carnot Impact Investing is a blended approach, which differentiates itself through financial as well as social and environmental performance. The effects (impact) are created in seven steps:

1. Topic of resource efficiency
2. Controversial activities (ESG top-down analysis)
3. Financial analysis
4. Sustainability (ESG bottom-up analysis)
5. Impact validation
6. Engagement
7. Negative Impact (Principal Adverse Impact PAI)

In the appendix, the report is supplemented by examples, external reports on sustainability and the carbon footprint as well as information on Carnot Capital memberships and publications.

1. Topic of Resource Efficiency

The Carnot Efficient Resources Fund invests exclusively in companies with products, services and development projects that reduce the consumption of natural resources. The reduction of resource consumption must be part of the company strategy. Such companies can be assigned to the basic elements fire, water, earth and air based on the ancient four-element theory. The following overview shows which topics the Carnot Efficient Resources Fund currently covers.



* Measured by position sizes

2. Controversial Activities

First, we screen portfolio candidates for controversial activities. Companies with such activities are excluded due to their negative impact (negative screening). For certain activities, a low turnover tolerance threshold is applied.

3. Financial Analysis

In our opinion, sustainability and the impact are only guaranteed if the company has a solid financial basis. We expect

- a) a strong balance sheet,
- b) an economic benefit of the products for the buyers,
- c) a good return on capital employed (ROCE).

A high ROCE promotes growth and innovation, which in turn reinforces the positive impact.

4. Sustainability Analysis

The Carnot Efficient Resources fund invests exclusively in sustainable companies. The analysis is made by Carnot Capital. Portfolio candidates for which no sustainability assessment is available are audited specifically by us on following a questionnaire. This procedure significantly expands the investment universe. The analysis includes a catalogue of

- a) environmental (products, production, supply chain),
- b) social (suppliers, employees, employer, clients) and
- c) governance issues.

The classification includes the sustainability contribution of the industry as well as the sustainability contribution of the individual company. We use the increasingly well-founded reporting of companies as well as Bloomberg and Sustainalytics as sources of information. Finally, we consider the comprehension of the business model that we gain in fundamental analysis to be a prerequisite for a sustainability assessment.

2. Controversial Activities		31/12/2022	31/12/2021
	Tolerance Threshold	Portfolio Share	Portfolio Share
Genetic engineering	5%	0%	0%
Nuclear energy (power plants, technology)	5%	0%	0%
Weapons (systems, components)	5%	0%	0%
Extraction of fossil fuels	0%	0%	0%
Land mines, cluster munitions	0%	0%	0%
Addictive substances (tobacco, alcohol)	0%	0%	0%
Sex business	0%	0%	0%
Gambling	0%	0%	0%

3. Relevant Financial Figures	31/12/2022	31/12/2021
Average debt ratio (net debt/EBITDA)	0.4x	0.5x
Average return on capital employed (ROCE)	32.4%	32.1%

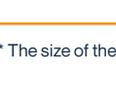
4. Sustainability (Bottom-Up)	31/12/2022	31/12/2021
Share of sustainable companies in the portfolio	100%	100%
Average score Scale from 0-100, sustainable as of 50 point	74	n.a.
EU taxonomy-compliant turnover	35.4%	n.a.

5. Impact Validation

a) Addressed Sustainable Development Goals (SDGs)

The portfolio companies make it possible to reduce resource consumption and thus have a decisive impact on the “UN’s Sustainable Development Goals” (SDGs).

The strongest support is given to goal no. 9 “Industry, Innovation, Infrastructure” because a variety of resource efficient products contribute to a modern infrastructure and environmentally friendly industrial processes. The Impact on “Affordable and Clean Energy” (no. 7) and “Climate Action” (no. 13) is also significant. The other goals in the table are supported mainly by the companies in the areas of drinking water, wastewater, food production and waste treatment.

Addressed Goals (SDGs), ranked by impact of the fund*		Product Examples
	Industry, Innovation, Infrastructure 9.4 Modernising infrastructure, environmentally friendly industrial processes	Smart buildings, Heat exchangers City cleaning Wastewater treatment
	Affordable and Clean Energy 7.2 Increase the share of renewable energy 7.3 Increase energy efficiency	Waterpower Heat pumps Water management Internet of things
	Climate Action 13.2 Integrate climate change measures into national policies, strategies and planning	Heat pumps Energy from waste Intelligent climate control
	Responsible Consumption and Production 12.2 Sustainable management and efficient use of natural resources 12.3 Reduce food losses and waste 12.5 Reduce waste generation through prevention, reduction, recycling and reuse	Organic food Packaging Agricultural technology Recycling
	Good Health and Well-Being 3.9 Substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination	Drinking water treatment Nutrients Sludge drying
	Sustainable Cities and Communities 11.2 Modern public transport systems 11.6 Reduce environmental impact of cities, improve air quality, efficient waste management	Rail transport E-mobility Waste management
	Clean Water and Sanitation 6.1 Access to safe and affordable drinking water for all 6.3 Substantially increasing recycling and safe reuse of water 6.4 Reduce water shortages through by increasing water-use efficiency	Water pipes Irrigation technology Sanitary ware
	Decent Work and Economic Growth 8.4 Decouple economic growth from environmental degradation	Energy efficient industrial Technology
	Zero Hunger 2.1 Ensure access to safe, nutritious and enough food 2.4 Ensure sustainable and efficient food production	Fertilizer Food preservation
	Life Below Water 14.7 Sustainable management of fisheries, aquaculture and tourism	Fish farming

* The size of the symbols corresponds to the extent of the impact according to the heatmap. Source: Carnot Capital

c) Share of Revenues of Companies with Impact Products

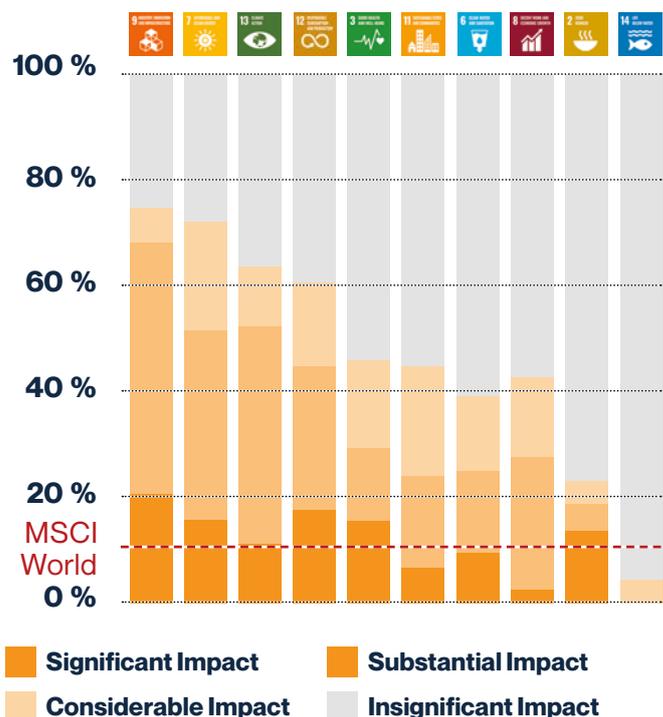
In our impact analysis, we determine which part of a company's revenue has a positive impact. On average, the portfolio companies generate more than half of the turnover with products, services and projects with a positive impact. A fund investment of EUR 1

million accounts for approximately EUR 0.7 million of revenues with a positive environmental impact. Part of this revenue has a social impact at the same time, as outlined (SDG 3 Health and Well-Being, SDG 2 Zero Hunger, etc.).

5. b) Portfolio Share with Impact as of 31/12/2022

Carnot Efficient Resources	100 %
Benchmark MSCI World*	10 %
Portfolio share with environmental impact	100 %

	Industry, Innovation, Infrastructure	74.8 %
	Affordable and Clean Energy	72.1 %
	Climate Action	63.7 %
	Responsible Consumption and Production	60.4 %
	Good Health and Well-Being	45.9 %
	Sustainable Cities and Communities	44.8 %
	Clean Water and Sanitation	42.8 %
	Decent Work and Economic Growth	39.2 %
	Zero Hunger	23.1 %
	Life Below Water	4.5 %



* Source: your SRI/MSCI

5. c) Revenues with Impact Products	31/12/2022	31/12/2021
Impact products* revenue per EUR 1 million investment amount	EUR 735,000**	EUR 744,000**
As % of total sales revenue of the portfolio companies	68 %	68 %
** Price/Sales	0.93	0.91

*Pure environmental Impact

d) Research & Development of Impact Products

A significant positive impact results from the research and development activities of the portfolio companies because they lead to new resource-saving products. Measured in terms of sales, R&D expenditure accounts for around 3%. For a fund investment of EUR 1 million, tens of thousands of euros of research and development expenditure are thus spent on improving resource efficiency.

6. Engagement

If the Carnot Impact Analysis reveals questions (e.g. on corporate governance) or suggestions for improvement (e.g. on the impact reporting of the company), Carnot uses its contacts to the management level to address these commitment issues personally.

7. Negative Impact (Principal adverse impact (PAI))

The European Union (EU) regulation on sustainability-related disclosure requirements in the financial services sector (SFDR) defines 18 core indicators that can have an adverse impact. Mirroring the Positive Impact (considerable, substantial, significant impact), the Negative Impact (adverse, negative, strong negative impact) describes opposite consequences.

The Carnot Impact process focuses on reducing consumption by making better, i.e. more efficient, use of the product factors employed. Concrete fields of application are the topics of energy and natural resources. Focusing on the issue of reducing consumption is an effective filter, so that most companies with significant adverse impacts in climate indicators and other environment-related indicators do not even enter the investment universe. By verifying and documenting that sustainability is part of the company's strategy, the likelihood of significant adverse impacts in the areas of social and employment issues, respect for human rights, and combating corruption and bribery is greatly reduced. By excluding companies with controversial activities, the adverse impacts are further reduced. Finally, portfolio companies are screened individually for significant adverse impacts (PAIs) using an ESG bottom-up analysis, taking into account the industry-specific profile of environmental and social risks. PAIs are examined, recorded, commented on, and assessed against the SDG grid. At the portfolio level, PAIs are reduced through engagement and through non-investment or divestment.

5. d) R & D Expenditure for Impact Products	31/12/2022	31/12/2021
R & D expenditures per EUR 1 million investment amount	EUR 30,000	EUR 31,500
As % of total sales revenue of the portfolio companies	3.0%	3.1%

6. Number of Engagement Cases	31/12/2022	31/12/2021
Opened engagement initiatives	1	1
Closed cases	2	0
Pending cases	1	2

7. Carnot Impact Process: Principal Adverse Impact (PAI) and SDG Mapping

Adverse sustainability indicator	SDGs affected	Summary remarks
1. GHG emissions		<p>The GHG emissions Scope 1/2/3 of portfolio companies are assessed. Companies with significant GHG emissions are assigned a negative impact with regard to SDG 13. The investment guidelines exclude the particularly problematic producers of fossil raw materials. Operators of coal-fired power plants are only considered if their overall generation mix has a low carbon footprint. Companies with other critical activities, such as airline operations, chemicals, steel or cement production, are only considered for investment if they undertake extraordinary efforts, particularly in research and development, to make the company and the industry as a whole more CO₂-friendly.</p>
2. Carbon footprint		<p>See PAI 1</p>
3. GHG intensity of investee companies		<p>The GHG intensity of the companies is analysed and compared to the GHG reduction effects of the products in the Energy Efficiency theme - Carnot Capital's main investment theme. When assessing PAI, not only the effective emission intensity is evaluated, but also the efforts to reduce emissions, especially in the area of R+D. Portfolio companies outside the energy efficiency theme are assigned a negative score on SDG 13 if they produce energy intensively.</p>
4. Exposure to companies active in the fossil fuel sector		<p>Companies that extract fossil raw materials are excluded from the investment universe. Companies that offer technologies and services for such companies are not excluded in principle. For such companies, the GHG impact of the technologies and services (as in other industries) is compared with the GHG impact of the industry standard technology.</p>
5. Share of non-renewable energy consumption and production		<p>Electricity producers with fossil power plants are only considered as an exception (see PAI 1). Energy intensive companies with a high share of fossil energy and no positive impact in energy efficiency receive a negative SDG 13 rating.</p>
6. Energy consumption intensity per high impact climate sector		<p>A high energy intensity is assessed negatively in relation to SDG 13 if the products have no or only a low energy saving effect or if the proportion of fossil energy in the energy mix is above average.</p>
7. Activities negatively affecting biodiversity-sensitive areas	 	<p>A negative assessment with regard to SDG 14 & 15 is given to companies whose emissions significantly pollute water or soil, and companies whose products impair biodiversity and promote monocultures. Particularly critical are fertilizer manufacturers, manufacturers of pesticides, soil cultivation machines, plants for the pulp industry, river power plants, and shipping companies with ships without ballast water treatment.</p>

8. Emissions to water

Portfolio companies are screened for emissions to water and assessed negatively, if applicable, if they belong to a process industry (chemicals, food, waste recycling, recycling, etc.). In the case of companies in the fishing industry, efforts to prevent emissions are assessed and positive consideration is given to the fact that the industry produces animal proteins with low water consumption.

9. Hazardous waste and radioactive waste ratio

Companies with nuclear power plants are excluded from the investment universe, except for shareholdings that are smaller than the exclusion threshold or activities in trading. Other companies are screened to determine whether hazardous waste is generated in production and whether it is treated without significant adverse effects. The PAI analysis also considers whether the products themselves generate hazardous waste, e.g. PVC.

10. Violations of UN Global Compact principles and Organisation for Economic Cooperation and Development (OECD) Guidelines for Multinational Enterprises

Companies known to have violated the OECD Guidelines for Multinational Enterprises are ranked with a negative impact on SDG 8. Particular caution is required for companies with substantial operations in countries with a poor ranking on the Corruption Index.

11. Lack of processes and compliance mechanisms to monitor compliance with UN Global Compact principles and OECD Guidelines for Multinational Enterprises

Carnot checks whether the portfolio companies monitor compliance with the OECD Guidelines for Multinational Enterprises and whether they handle complaints. An assessment with regard to SDG 8 is negative (only) if the company does not document any efforts in terms of the concerns in the OECD Guidelines.

12. Unadjusted gender pay gap

Carnot takes note of the companies' reporting on gender distribution and earnings gaps. However, we do not derive any strong negative or negative impacts in terms of the SDGs from this.

13. Board gender diversity

Carnot takes note of gender diversity in governance bodies, but does not infer strong negative or negative impacts in terms of the SDGs.

14. Exposure to controversial weapons (anti-personnel mines, cluster munitions, chemical weapons and biological weapons)

Companies involved in controversial weapons are excluded from the universe. For other weapons, a tolerance threshold of 5% applies. These companies will be assigned a negative score on SDG 16.

15. GHG intensity	Not applicable (Investments in sovereigns and supranationals)
16. Investee countries subject to social violations	Not applicable (Investments in sovereigns and supranationals)
17. Exposure to fossil fuels through real estate assets	Not applicable (Investments in real estate assets)
18. Exposure to energy-inefficient real estate assets	Not applicable (Investments in real estate assets)

APPENDIX

1. Examples

Companies and Products with Impact	Details	* Scale: significant, substantial, considerable, low impact																
  <p data-bbox="97 891 375 925"><i>Intelligent outdoor lighting</i></p>	<p data-bbox="635 454 858 488">Energy/Lighting</p> <table border="1" data-bbox="635 488 1489 768"> <tr><td>Portfolio weight</td><td>2.4%</td></tr> <tr><td>Share of revenue from resource efficient products</td><td>84%</td></tr> <tr><td>ROCE</td><td>49%</td></tr> <tr><td>Net debt</td><td>1.3x</td></tr> <tr><td>R&D expenditure (% revenue)</td><td>4.2%</td></tr> <tr><td>Sustainability</td><td>yes</td></tr> <tr><td>Environmental impact*: SDG 7/13</td><td>significant</td></tr> <tr><td>Social impact*: SDG 9</td><td>substantial</td></tr> </table> <p data-bbox="635 790 1489 925">LED bulbs save about 50% energy compared to fluorescent tubes, even 80% compared to halogen bulbs. Signify is one of the world's largest LED lighting manufacturers and is pushing ahead with intelligent lighting controls, which significantly reduce energy consumption further.</p>	Portfolio weight	2.4%	Share of revenue from resource efficient products	84%	ROCE	49%	Net debt	1.3x	R&D expenditure (% revenue)	4.2%	Sustainability	yes	Environmental impact*: SDG 7/13	significant	Social impact*: SDG 9	substantial	
Portfolio weight	2.4%																	
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Environmental impact*: SDG 7/13	significant																	
Social impact*: SDG 9	substantial																	
<p data-bbox="97 947 327 1014">CRODA</p>  <p data-bbox="97 1317 467 1373"><i>The target are microplastic-free seed coatings for resistance</i></p>	<p data-bbox="635 947 858 981">Earth/Food & Nutrition</p> <table border="1" data-bbox="635 981 1489 1261"> <tr><td>Portfolio weight</td><td>2.2%</td></tr> <tr><td>Share of revenue from resource efficient products</td><td>50%</td></tr> <tr><td>ROCE</td><td>41%</td></tr> <tr><td>Net debt</td><td>0.1x</td></tr> <tr><td>R&D expenditure (% revenue)</td><td>3.1%</td></tr> <tr><td>Sustainability</td><td>yes</td></tr> <tr><td>Environmental impact*: SDG 12</td><td>significant</td></tr> <tr><td>Social impact*: SDG 2/3/8</td><td>substantial</td></tr> </table> <p data-bbox="635 1283 1489 1373">Among other things, Croda produces nutrients for low-fat, healthy food and specialises in microplastic-free biostimulants, which are applied to seeds as a strengthening agent.</p>	Portfolio weight	2.2%	Share of revenue from resource efficient products	50%	ROCE	41%	Net debt	0.1x	R&D expenditure (% revenue)	3.1%	Sustainability	yes	Environmental impact*: SDG 12	significant	Social impact*: SDG 2/3/8	substantial	
Portfolio weight	2.2%																	
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Environmental impact*: SDG 12	significant																	
Social impact*: SDG 2/3/8	substantial																	
  <p data-bbox="97 1821 483 1843"><i>Drinking water filter for household use</i></p>	<p data-bbox="635 1417 858 1451">Water/Water Infrastructure</p> <table border="1" data-bbox="635 1451 1489 1731"> <tr><td>Portfolio weight</td><td>2.2%</td></tr> <tr><td>Share of revenue from resource efficient products</td><td>100%</td></tr> <tr><td>ROCE</td><td>26%</td></tr> <tr><td>Net debt</td><td>0x</td></tr> <tr><td>R&D expenditure (% revenue)</td><td>2.8%</td></tr> <tr><td>Sustainability</td><td>yes</td></tr> <tr><td>Environmental impact*: SDG 6/7</td><td>significant</td></tr> <tr><td>Social Impact*: SDG 3/9/11</td><td>substantial</td></tr> </table> <p data-bbox="635 1753 1489 1843">Heat pump water heaters are very efficient, resulting not only in significant savings in energy costs, but also in a significant reduction in greenhouse gas emissions.</p>	Portfolio weight	2.2%	Share of revenue from resource efficient products	100%	ROCE	26%	Net debt	0x	R&D expenditure (% revenue)	2.8%	Sustainability	yes	Environmental impact*: SDG 6/7	significant	Social Impact*: SDG 3/9/11	substantial	
Portfolio weight	2.2%																	
Share of revenue from resource efficient products	100%																	
ROCE	26%																	
Net debt	0x																	
R&D expenditure (% revenue)	2.8%																	
Sustainability	yes																	
Environmental impact*: SDG 6/7	significant																	
Social Impact*: SDG 3/9/11	substantial																	

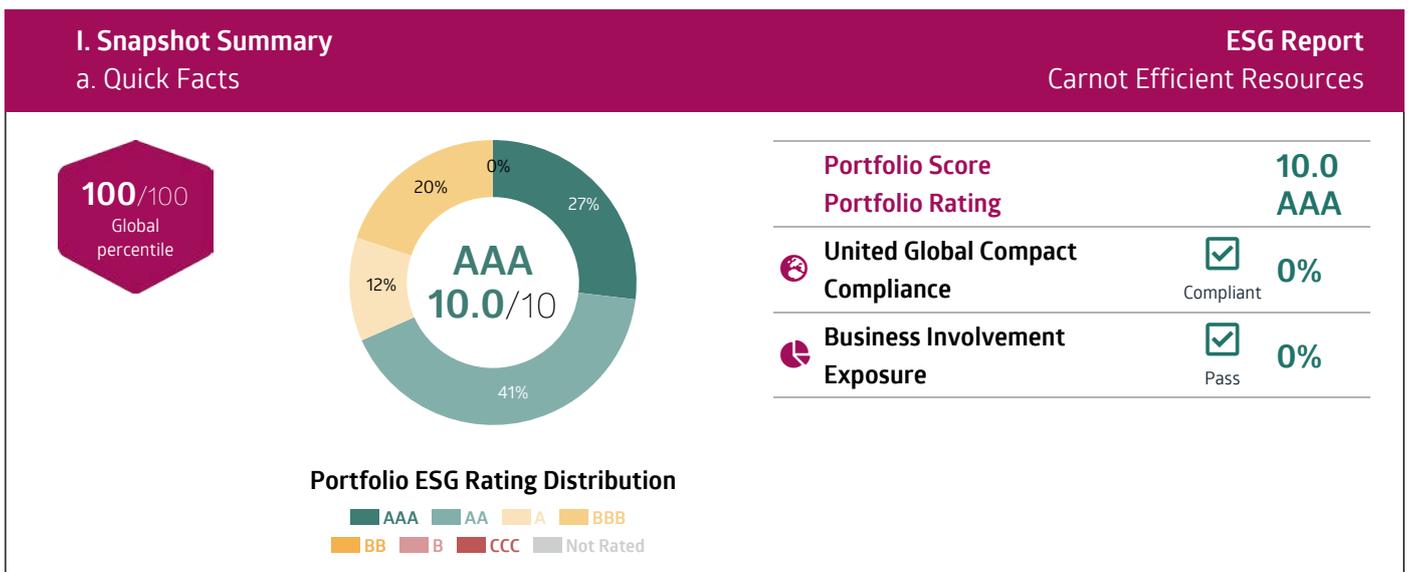
2. External Sustainability Assessment

We have the Carnot Efficient Resources Fund's sustainability reviewed externally by yourSRI. The analysis is based on the very comprehensive database of MSCI. The most important results are shown in the following overview (Snapshot Summary). It shows the sustainability rating (maximum AAA), the ranking in the entire universe (Global percentile), the rank in the peer group (Peer percentile), the compliance with the United Nations Global Compact (United Global Compact Compliance) and the portfolio share of companies with controversial activities (Business Involvement Exposure). The external result corresponds to our internal assessment.

3. CO₂ Foot Print

The carbon footprint was created with Bloomberg, it uses data from ISS Ethix. The carbon footprint of the Carnot Efficient Energy Fund is much smaller than that of the overall market, broken down to a fund investment of EUR 1 million or EUR 1 million in portfolio companies' revenue. This analysis covers the company's CO₂ emissions in the combustion of fuel (Scope 1) and the emissions of the electricity suppliers (Scope 2) as well as the emissions contained in the other services and products purchased (Scope 3).

The analysis does not consider the CO₂ reduction effects that the products, services and projects of the companies generate. These effects are, in our opinion, particularly important from an impact perspective. For this reason we make our own assessment (see 5. Impact Validation).



Source: yourSRI.com

Business Involvement Exposure passed: See 2. Controversial Activities, Tolerance Threshold

Carbon Footprint

as of 31/12/2022

	Scope 1 & 2 Greenhouse Gas Emissions per Sales (tCO ₂ e / EUR Mio revenue)	Scope 1 & 2 Greenhouse Gas Emissions per EVIC* (tCO ₂ e / EUR Mio EVIC*)
Carnot Efficient Resources	81	53
MSCI World Index	168	57

*Enterprise Value including Cash

Source: Bloomberg

4. Memberships

Carnot Capital has committed as a signatory to implement the six United Nations Principles for Responsible Investment (UN PRI) in the investment process. Carnot Capital is a member of Swiss Sustainable Finance.

Carnot Impact Investing-process follows 9 steps along the “Operating Principles for Impact Management”. The IFC of World Bank Group released these rules.



5. Publications



Carnot Capital AG, **Investments into Energy and Resource Efficiency with a Measurable Impact**, https://25530849.fs1.hubspotusercontent-eu1.net/hubfs/25530849/Downloads/Research_Paper_Carnot_Impact_Investing_en.pdf



Carnot Capital AG, **Carnot Impact Investing: Overview & Case Study Belimo**, <https://www.carnotcapital.com/hubfs/Carnot%20Impact%20Case%20Study%20Belimo%20EN.pdf?hsLang=en>



Carnot Capital AG, **Carnot Impact Investing: Overview & Case Study Akasol**, <https://www.carnotcapital.com/hubfs/Carnot%20Impact%20Case%20Study%20Akasol%20EN.pdf?hsLang=en>

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Carnot Capital

WHO IS CARNOT CAPITAL AG

Carnot Capital is an investment management company, specialized in energy and resource efficiency. We founded the company in 2007 in Zurich and received 2013 the permission as an asset manager for collective investments by the Swiss Financial Markets Supervisory Authority FINMA. We manage the equity funds Carnot Efficient Energy and Carnot Efficient Resources performing a sustainability examination ESG. We buy stocks of listed companies with products and technologies that lower the consumption of natural resources. Due to rising scarcity and increasing environmental problems, those companies profit from structural growth. The stock selection is based on a value approach, where the quality of the company is central. We only invest in established, profitable companies with strong balance sheets. Carnot Impact Investing is a blended approach, which differentiates itself through financial as well as social-ecological performance and by combining these two qualities and revealing the positive effects they have achieved (impact from ESG & SDG mapping).

