



#### OVERVIEW

**DATE OF HOLDINGS COVERAGE** 31 MAR 2020 95.74%

AMOUNT INVESTED BENCHMARK USED

127,672,914 EUR BENCHMARK FONENGIN
ISR

PORTFOLIO TYPE

MIXED

# **FONENGIN ISR**

Climate Impact Assessment

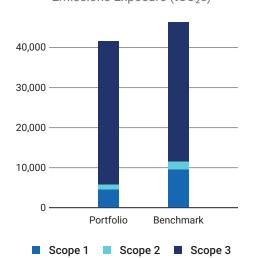
### Carbon Metrics 1 of 3

#### **Portfolio Overview**

ı	<b>Disclosure</b> Number/Weight		Emission Expo tCO <sub>2</sub> e	osure		ission Exposure EUR Revenue	Climate Performance Weighted Avg
	Share of Disclosing Holdings	Scope 1 & 2	Incl. Scope 3	Relative Carbon Footprint	Carbon Intensity	Weighted Avg Carbon Intensity	Carbon Risk Rating <sup>1</sup>
Portfolio	100% / 100%	5,795	41,477	45.39	94.30	97.33	45
Benchmark	91% / 97.1%	11,551	46,331	90.48	208.86	174.01	42
Net Perform	ance 9 p.p. / 2.9 p.p.	49.8%	10.5%	49.8%	54.8%	44.1%	-

# **Emission Exposure Analysis**





# Sector Contributions to Emissions<sup>2</sup>



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<sup>&</sup>lt;sup>1</sup> Note: Carbon Risk Rating data is current as of the date of report generation.

<sup>&</sup>lt;sup>2</sup> Emissions contributions for all other portfolio sectors is less than 1% for each sector.

# **Emission Exposure Analysis (continued)**

Top 10 Contributors to Portfolio Emissions				
Issuer Name	Contribution to Portfolio Emission Exposure (%)	Portfolio Weight (%)	Emissions Reporting Quality	Carbon Risk Rating
Total SA	17.39%	2.64%	Strong	<ul><li>Medium Performer</li></ul>
Galp Energia SGPS SA	13.96%	2.39%	Strong	<ul><li>Laggard</li></ul>
Repsol SA	13.55%	0.82%	Strong	<ul><li>Medium Performer</li></ul>
UPM-Kymmene Oyj	7.65%	0.80%	Strong	<ul><li>Outperformer</li></ul>
Neste Corp.	6.53%	2.39%	Strong	<ul><li>Laggard</li></ul>
Equinor ASA	6.33%	1.03%	Strong	<ul><li>Medium Performer</li></ul>
Johnson Controls International Plc	3.32%	1.72%	Moderate	<ul><li>Medium Performer</li></ul>
Italgas SpA	3.32%	2.33%	Strong	<ul><li>Outperformer</li></ul>
Red Electrica Corp. SA	3.18%	1.93%	Moderate	<ul><li>Outperformer</li></ul>
Newmont Goldcorp Corp.	3.01%	1.14%	Strong	<ul><li>Medium Performer</li></ul>
Total for Top 10	78.24%	17.19%		

#### Carbon Metrics 2 of 3

### **Emission Attribution Analysis**

Emission Attribution Analysis examines the extent to which higher or lower GHG exposure between the portfolio and the benchmark can be attributed to sector allocation versus issuer selection. A portfolio with a larger amount of assets allocated to an emissions-intense sector will ultimately have higher GHG emissions exposure. However, this can be offset by the selection of less emissions-intense issuers from that sector. This analysis relates to the carbon footprint of the portfolio, specifically the Emissions Scope 1 & 2 (tCO<sub>2</sub>e) and Relative Carbon Footprint (tCO<sub>2</sub>e/Mio Invested) metrics.

The subsequent table identifies the most emissions-intense issuers in the analysis, the comparative weight for each issuer between the portfolio and benchmark, as well as the sector allocation and issuer selection effects. A positive (green) number represents less greenhouse gas exposure for the issuer in the portfolio relative to the benchmark.

Top Sectors to Emission Attr							
Sector	Portfolio Weight	Benchmark Weight	Difference	Sector Allo	ocation Effect	Issuer Selec	ction Effect
Communication Services	3.13%	4.14%	-1.01%	0.1%		0.18%	1
Consumer Discretionary	3.67%	7.28%	-3.61%	1.17%		0.49%	
Consumer Staples	13.24%	7.05%	6.19%	Į.	-2.6%	2%	
Energy	10.45%	3.66%	6.79%		-32.31%	19.9%	
Financials	21.41%	20.89%	0.52%		-0.01%		-0.38%
Health Care	2.78%	16.28%	-13.5%	0.7%		0.08%	
Industrials	19.66%	7.78%	11.88%		-12.69%	17.17%	
Information Technology	12.62%	19.44%	-6.83%	0.68%		0.49%	
Materials	4.31%	4.41%	-0.1%	0.89%		31.9%	
Real Estate	2.08%	2.84%	-0.76%	0.18%		0.39%	
Utilities	6.64%	4.03%	2.62%		-15.38%	34.42%	
Other	0%	2.19%	-2.19%	2.47%			0%
Cumulative Higher (-) and Lower (	+) Emission Exposure	vs. Benchmark			-56.8%	106.63%	
Higher (-) / Lower (+) Net Emission	n Exposure vs. Benchr	nark			!	50%	

# **Emission Attribution Analysis (continued)**

Highest Emission-Intense Issuers in	Combined Port	folio & Benchmark Univers	se	
Issuer Name	Sector	Emission Exposure Scope 1 & 2 (tCO <sub>2</sub> e)	Carbon Risk Rating	Portfolio Under (-) / Overexposure (+)
1. Alcoa Corp.	Materials	8,914.67	<ul> <li>Medium Performer</li> </ul>	-0.01%
2. ArcelorMittal SA	Materials	8,617.69	<ul> <li>Medium Performer</li> </ul>	-0.08%
3. Buzzi Unicem SpA	Materials	4,546.44	<ul><li>Laggard</li></ul>	-0.02%
4. LafargeHolcim Ltd.	Materials	4,229.09	<ul> <li>Medium Performer</li> </ul>	-0.13%
5. HeidelbergCement AG	Materials	4,212.62	<ul> <li>Medium Performer</li> </ul>	-0.1%
6. Tata Steel Ltd.	Materials	3,509.04	<ul> <li>Medium Performer</li> </ul>	0%
7. POSCO	Materials	2,869.83	<ul> <li>Medium Performer</li> </ul>	-0.07%
8. Sembcorp Industries Ltd.	Industrials	2,506.1	<ul> <li>Medium Performer</li> </ul>	-0.01%
9. Cementos Argos SA	Materials	2,455.57	<ul> <li>Medium Performer</li> </ul>	0%
10. Grupo Argos SA	Materials	2,421.09	<ul> <li>Medium Performer</li> </ul>	-0.01%
11. China Everbright International Ltd.	Industrials	2,387.05	<ul><li>Laggard</li></ul>	-0.01%
12. Origin Energy Limited	Energy	2,321.85	<ul> <li>Medium Performer</li> </ul>	-0.02%
13. Deutsche Lufthansa AG	Industrials	2,297.86	<ul> <li>Medium Performer</li> </ul>	-0.01%
14. Hyundai Steel Co.	Materials	2,058.75	<ul> <li>Medium Performer</li> </ul>	-0.01%
15. Air France-KLM SA	Industrials	2,027.79	<ul><li>Medium Performer</li></ul>	-0.01%

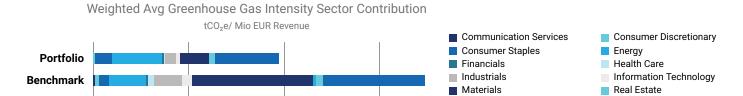
# ■ Carbon Metrics 3 of 3

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# **Greenhouse Gas Emission Intensity**

50

100



150

Utilities

Other

Top 10 Emission Intense Companies (tCO <sub>2</sub> e Scope 1 & 2/Revenue Millions)				
Issuer Name	Emission Intensity	Peer Group Avg Intensity		
1. Newmont Goldcorp Corp.	773.05	814.28		
2. UPM-Kymmene Oyj	606.66	544.86		
3. Snam SpA	598.28	323.52		
4. Red Electrica Corp. SA	593.43	509.62		
5. Repsol SA	449.87	979.13		
6. Unibail-Rodamco-Westfield	424.53	123.50		
7. Royal Vopak NV	332.30	242.34		
8. Italgas SpA	330.81	323.52		
9. Taiwan Semiconductor Manufacturing Co., Ltd.	292.34	254.09		
0. Total SA	281.87	979.13		

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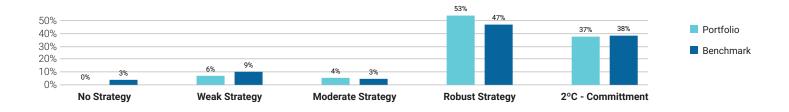
### ■ Climate Scenario Analysis 1 of 2

In order to transition, holdings need to commit to align with the international climate goals and progress on those in the future. Currently, 36.76% of the portfolio's value is committed to such a goal. While this is not a guarantee to reach this goal, the currently 0% of the portfolio without a goal is certainly unlikely to transition and should receive special attention from a climate risk conscious investor.

Portfolio Compliance with Emission Budget per Scenario					
	2020	2030	2040	2050	
2°	77.88%	101.22%	127.42%	161%	
<b>4°</b>	73%	75.92%	77.71%	80.29%	
6°	70.46%	68.75%	66.62%	65.52%	

2030 Until the year 2030, portfolio is aligned with a 2° Celsius warming scenario.

#### Climate Strategy Assessment (% Portfolio Weight)

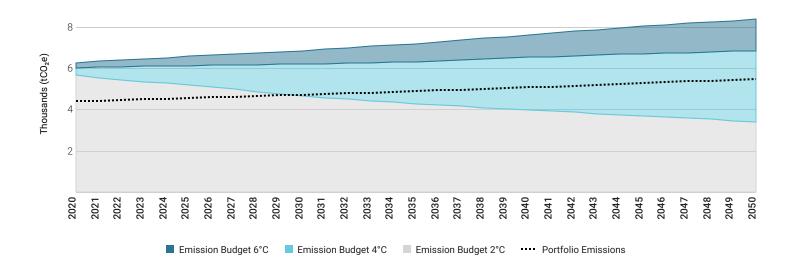


#### **Scenario Analysis**

The climate scenario environment alignment compares current and future portfolio greenhouse gas emissions with the carbon budgets for a below 2 degree Celsius scenario as well as warming scenarios of 4 degrees and 6 degrees Celsius until 2050.

The FONENGIN ISR strategy in its current state will be misaligned with a 2 degree Celsius scenario by 2030. Only by re-allocating investments or by helping holdings to transition, a longer-lasting 2 degree alignment can be achieved.

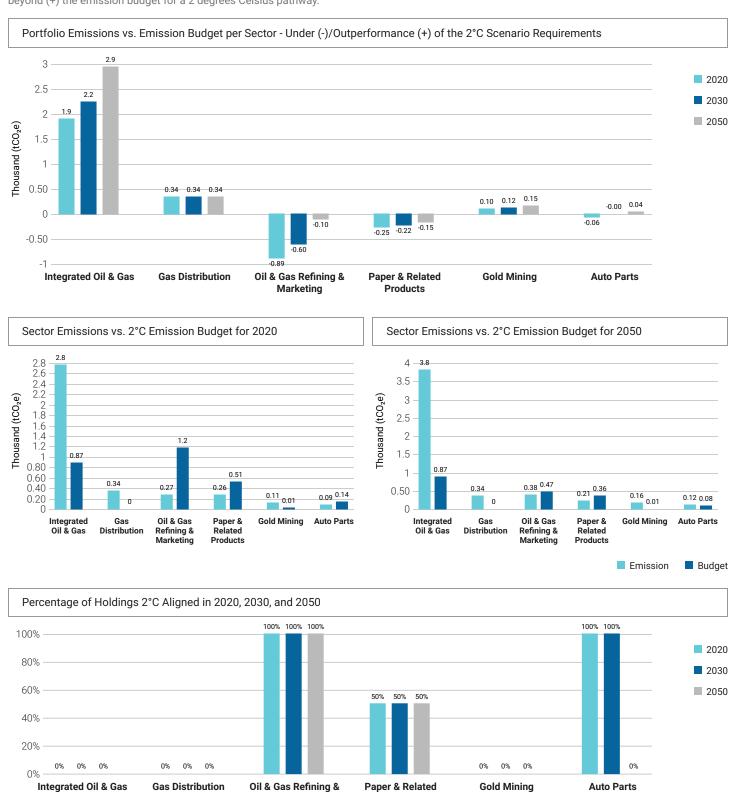
#### Portfolio Emission Pathway vs. Climate Scenarios



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### ■ Climate Scenario Analysis 2 of 2

To contain average global warming to below 2 degrees Celsius, portfolio holdings in certain sectors are still aligned (-), while others are already beyond (+) the emission budget for a 2 degrees Celsius pathway.



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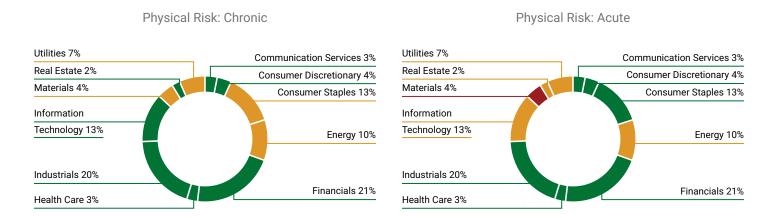
**Products** 

Marketing

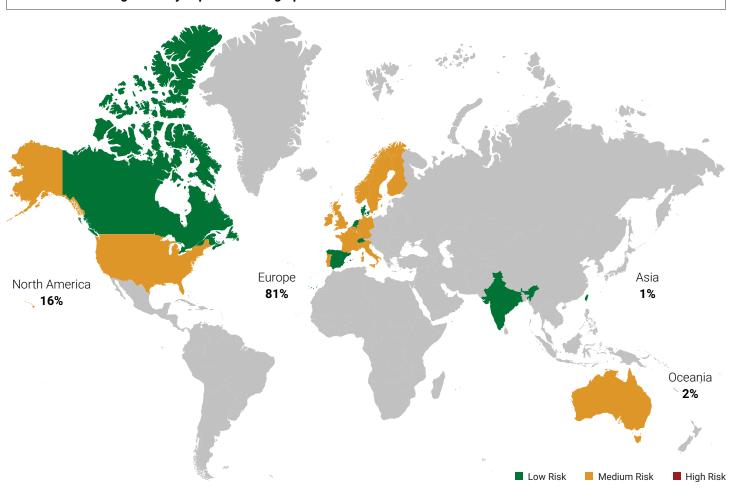
### ■ Physical Climate Risk Analysis

Rising temperature levels, even if limited to 2° Celsius, will result in changes of the climate system resulting in physical risks. Physical risks can be classified into long term weather changes and extreme weather events such as storms, floods, or droughts. Companies' exposure to these two types of physical risk depends on two main factors: their sector as well as the geographical region they are active in.

# **Sector Exposure: Chronic and Acute Physical Risk**



#### Percent of Holdings Directly Exposed to Geographic & Associated Sector Risk



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# ■ Transition Climate Risk Analysis 1 of 3

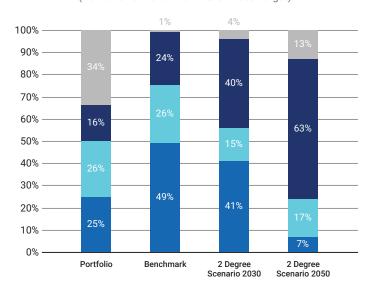
A decarbonized world needs to address both the demand side (for example Utilities burning fossil fuels) and the supply side (i.e. fossil reserves) of future emissions. For Utilities, it matters whether the power generated and power generation planned for the future stem from renewable (green) or fossil (brown) sources. For fossil reserve owning companies, potential future greenhouse gas emissions might indicate stranded asset risk. The Carbon Risk Rating (1-100) provides a view on how well the respective portfolio and benchmark holdings are managing such risks.

### **Transition Analysis Overview**

	Power Generation	on	Rese	rves	Climate Performance
	% Installed Capacity Green Share	% Installed Capacity Brown Share	% Investment Exposed to Fossil Fuels	Total Potential Future Emissions (ktCO <sub>2</sub> )	Weighted Avg Carbon Risk Rating
Portfolio	16.06%	24.62%	6.88%	193.91	45
Benchmark	23.65%	49.25%	4.67%	179.5	42

#### **Power Generation**

Power Generation Exposure (Portfolio vs. Benchmark vs. Climate Target)



For a decarbonized future economy, it is key to transition the energy generation mix from fossil to renewable sources. Utilities relying on fossil power production without a substitute plan might run a higher risk of getting hit by climate change regulatory measures as well as reputational damages. The graph on the left compares the energy generation mix of the portfolio with the benchmark and a 2 degree Celsius compatible mix in 2020 and 2050, according to the International Energy Agency. Below, the 5 largest Utility holdings can be compared on fossil versus renewable energy production capacity, their contribution to the overall portfolio greenhouse gas emission exposure and their production efficiency for 1 GWH of electricity.

Fossil Fuels	Nuclear	Renewables	Other

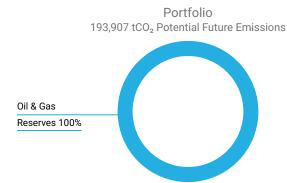
#### Top 5 Utilities' Fossil vs. Renewable Energy Mix

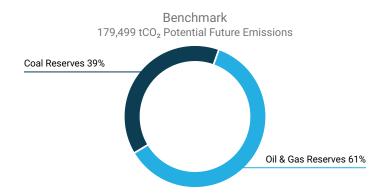
Issuer Name	% Fossil Fuel Capacity	% Renewable Energy Capacity	% Contribution to Portfolio Emissions	Emissions tCO₂e Scope 1 & 2 /GWh
Italgas SpA	0%	0%	3.32%	-
Red Electrica Corp. SA	0%	0%	3.18%	-
Snam SpA	0%	0%	2.74%	-

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# ■ Transition Climate Risk Analysis 2 of 3

For fossil reserve owning companies, potential future greenhouse gas emissions might indicate stranded asset risk, as about 80% of those reserves need to stay in the ground to not exceed 2 degrees Celsius of warming. The portfolio contains  $193,907 \, \text{tCO}_2$  of potential future emissions, of which 0% stem from Coal reserves, 100% from Oil and Gas reserves. Investor focus is often on the 100 largest Oil & Gas and 100 largest Coal reserve owning companies, to understand the exposure to these top 100 lists.





Exposure to the 100 Largest	Oil & Gas and Coal Reserve Owning Assets		
Issuer Name	Contribution to Portfolio Potential Future Emissions	Oil & Gas Top 100 Rank	Coal Top 100 Rank
Total SA	47.21%	11	-
Equinor ASA	21.64%	21	-
Galp Energia SGPS SA	17.61%	-	-
Repsol SA	13.53%	41	-
RELX Plc	0%	-	-

Unconventional and controversial energy extraction such as "Fracking" and Arctic Drilling is a key focus for investors, both from a transition and a reputation risk perspective.

Exposure to Contro	Exposure to Controversial Business Practices				
Issuer Name	Portfolio Weight	Arctic Drilling	Hydraulic Fracturing	Oil Sands	Shale Oil and/or Gas
Total SA	2.64%	-	Production	Production	Production
Xylem, Inc.	2.35%	-	Services	Services	Services
Siemens AG	2.13%	-	Services	-	Services
Equinor ASA	1.03%	-	Production	-	Production
Repsol SA	0.82%	-	Production	-	Production

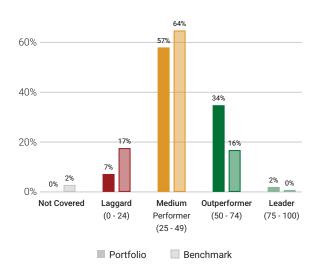
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#### **Portfolio Carbon Risk Rating**

The Carbon Risk Rating (CRR) assesses how an issuer is exposed to climate risks and opportunities, and whether these are managed in a way to seize opportunities, and to avoid or mitigate risks. It provides investors with critical insights into how issuers are prepared for a transition to a low carbon economy and is a central instrument for the forward-looking analysis of carbon-related risks at portfolio and issuer level.

#### CRR Distribution Portfolio vs. Benchmark



### Avg Portfolio CRR and Spread for Selected ISS ESG Rating Industries

ISS ESG Rating Industry <sup>1</sup>	Average Carbon Risk Rating		
Renewable Energy (Operation) & Energy Efficiency Equipment		•	ç
Food & Beverages	•		2
Financials/Commercial Banks & Capital Markets	•		2
Machinery	•		2
Oil, Gas & Consumable Fuels	•		2
Oil & Gas Equipment/Services	•		1
Utilities/Electric Utilities			
Electronic Components			
Transportation Infrastructure			
Transport & Logistics			

Top 5 <sup>2</sup>	Country	ISS ESG Rating Industry	CRR	Portfolio Weight (consol.)
■ Vestas Wind Systems A/S	Denmark	Renewable Energy & Energy Efficiency Equipment	98	2.33%
■ RELX Plc	United Kingdom	Media	69	3.17%
Red Electrica Corp. SA	Spain	Utilities/Network Operators	65	1.93%
■ HP, Inc.	USA	Electronic Devices & Appliances	61	0.63%
■ Henkel AG & Co. KGaA	Germany	Household & Personal Products	60	0.93%

Bottom 5 <sup>2</sup>	Country	ISS ESG Rating Industry	CRR	Portfolio Weight (consol.)
■ TechnipFMC plc	United Kingdom	Oil & Gas Equipment/Services	13	0.59%
■ Wendel SE	France	Financials/Multi-Sector Holdings	21	2.32%
■ Galp Energia SGPS SA	Portugal	Oil, Gas & Consumable Fuels	22	2.39%
■ Neste Corp.	Finland	Oil, Gas & Consumable Fuels	22	2.39%
■ Equinor ASA	Norway	Oil, Gas & Consumable Fuels	26	1.03%

<sup>■</sup> Climate Laggard (0 - 24) ■ Climate Medium Performer (25 - 49) ■ Climate Outperformer (50 - 74) ■ Climate Leader (75 - 100)

<sup>&</sup>lt;sup>1</sup> The proprietary ISS ESG Rating industry Classification is intended to group companies from an ESG perspective and might differ from other classification systems.

<sup>&</sup>lt;sup>2</sup> Multiple issuers may have the same CRR value. In the event the Top 5 and Bottom 5 tables have more than one issuer in the last position due to a tie in CRR values, the weight of the issuers in the portfolio will determine the issuer assigned to the table.

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