Assessing transition risks

November, 2019

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Who we are

As an employee-held, purpose-driven company founded in 2006, we enable corporates, capital markets and the public sector to mitigate risks and create value on their sustainability journey.

Our staff of 300+ employees in over 18 offices worldwide are passionate about tackling climate change and improving organisations' sustainability performance.



South Pole works to: Mobilizing Climate Finance at Scale



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Measuring climate risks and opportunities for investment portfolio through scenario analysis

Portfolio climate risk analysis helps in answering important climate risk related questions, such as:

- How do physical climate risks like heat-waves, water shortages, floods, or hurricanes affect different asset classes?
- How sensitive are such physical climate risks to different climate scenarios like a 2°C or a business-as-usual scenario?
- How are investment portfolios affected by changes in policy and legal environment as potential new carbon markets and climate policies emerge?



South Pole's support in addressing portfolio's exposure to climate risks



Disclosure & integration support

Our approach ensures both breadth (top-down) and depth (bottom-up) in risk assessment



South Pole's portfolio analysis provides climate risk results on an investee company level, while allowing for multiple levels of aggregation of results on a sector, country, and portfolio level.

Risk analysis based on established scientific evidence

South Pole risk analysis uses available scientific data, methods, and knowledge to continuously increase its granularity and scope



South Pole's scenario-based methodology used to quantify transition risks



Output: transition climate risk score based on added value at risk

Applies a variety of scenariosProvides results at the portfolio, sector and holding level	Considers various temperature change scenarios from 1.5–4°C	Time horizons between 2025 and 2040
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Example of transition risk calculation

Risk factor/areas of operation	Sweden	Brazil	India	Peru
Exposure (based on sector and location) Holding sector: mining and quarrying	32%	26%	16%	26%
Scope 1 intensity [kg CO ₂ eq./USD]	0.53	0.36	0.52	0.16
Scope 2 intensity [kg CO ₂ eq./USD]	0.41	0.16	9.78	2.10
Scope 3 intensity [kg CO ₂ eq./USD]	0.11	0.20	0.22	0.32
Carbon price based on IEA RTS (2050) [USD/t CO ₂ eq]	48	48	48	48
Overall risk score – weighted average of intensity, value added and carbon price	Risk score for Company Y: -13.81%			

Examples of climate risk results and outputs Portfolio risk hotspots are highlighted by identifying high risk companies and sectors

Investee companies' transition risk results are presented in both table format and various charts to allow for comparison between companies, across and within portfolio sectors.



Examples of investee company comparisons Results vary according to market, operational, and supply chain factors





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Chevron Corp. transition risk





Thank you

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